

APPENDIX A

Enforceable Policies

INTRODUCTION

This section includes the enforceable policies (EP) that apply throughout the Designated Recreation Use area.

EP-1 Uses and Activities and Setbacks

The following uses are allowed and considered appropriate in the Recreation Use Area: primary and secondary structures, utilities and transportation features, direct access to streams or waterbodies or to accommodate water-dependent and/or water-related uses, habitat enhancement or restoration projects, land clearing for approved developments, impervious surfaces, clearing of native or other vegetation, removal of dead or decaying trees that threaten public or private property or health and safety. These uses are permitted provided they meet the following required conditions [and relevant Municipal regulations]:

- (a) A 50-foot setback from the Ordinary High Water (OH) of streams and/or waterbodies, as depicted on Maps 1, 2, & 3 unless there is no practicable alternative location for the use or activity.
- (b) For streams or waterbodies with contiguous wetlands, setback distances shall follow those defined in Table 2 of the Anchorage Wetlands Management Plan (see Appendix), which vary from 25' to 200'.

EP-2 Buffering and Screening

- (A) For commercial, industrial, or institutional projects and associated activities within 200-feet of streams or waterbodies within the Recreation Use Area Designation, as shown on Maps 1, 2, & 3 or in Table 2. of the Anchorage Wetlands Management Plan (see Appendix), natural or landscaped vegetative buffers (with non-invasive species) or other screening measures shall be required specifically where the project site parallels or abuts, but lies outside, the stream or waterbody setbacks cited in EP-1.
- (B) Requirements for the size and extent of buffers or screening measures: At a minimum, these site-specific buffers or screens shall be 10' wide if composed of vegetation.

EP-3 Waterfront Development

In accordance with 11 AAC 112.200:

- (A) Water-dependent Uses and Activities within the Municipality of Anchorage include: docks; boat ramps and launches; marinas, including wet-boat storage and boathouses, haul-out facilities, permanent or transient docking spaces and dry-storage; boat fueling facilities, piers, wharfs, and mooring pilings; fish processing facilities and hatcheries; water-based tourism facilities and accessory attached housing; and transportation-related structures dependent on water access.
- (B) Water-related Uses and Activities within the Municipality of Anchorage include: retail stores and commercial activities such as hotels, restaurants, pedestrian-oriented access, and other similar uses that provide access to and/or views of the shoreline.

EP-4 Coastal Access

- (A) Development shall not interfere with existing legal public access to, or use of, the waterfront where such access or use has been established through acquisition, donation, dedication, or prescriptive easement.
- (B) New subdivisions shall be designed to maintain or enhance public access to, from, and along coastal waters within the coastal zone where practicable.

EP-5 Capital Improvements

- (A) Capital improvements on non-federal, publicly owned property shall incorporate walkways, shelters, viewing platforms, and landscaping whenever practicable to enhance public access to coastal waters.

APPENDIX B

Enforceable Policies Cross Reference Table

Enforceable Policy Name & Number	Resource Inventory & Analysis	Issues, Goals, and Objectives	Maps
Enforceable Policies Applicable Throughout the Coastal Zone/Designated Recreation Use Area			A, B, and C depict the designations for Anchorage Bowl, Chugiak-Eagle River, and Turnagain Arm
EP-1 Uses & Activities & Setbacks	pp. 16-19, 24, 26-31, 35-39	pp. 5-7	
EP-2 Buffering and Screening	pp. 16-19, 24, 26-31, 35-39	pp. 5-7	
EP-3 Waterfront Development	pp. 16-19, 24, 26-31, 35-39	pp. 5-7	
EP-4 Coastal Access	pp. 13-15, 26-29, 35-39	pp. 5-7	
EP-5 Capital Improvements	pp. 11, 13-15, 20-22, 24, 29-31, 35-39	pp. 5, 6	

APPENDIX C

List of Abbreviations and Acronyms Used

AAC	Alaska Administrative Code
ACMA	Alaska Coastal Management Act
ACMP	Alaska Coastal Management Program
ACWR	Anchorage Coastal Wildlife Refuge
ADFG	Alaska Department of Fish & Game
ADNR	Alaska Department of Natural Resources
AHRS	Alaska Historic Resources Survey
AMSA	Areas Meriting Special Attention
APNRF	Anchorage Bowl Park, Natural Resource, and Recreation Facility Plan
ASIDESS	Anchorage Sensitivity Index Decision Support System
BLM	Bureau of Land Management
CEA	Chugach Electric Association
CEDS	Comprehensive Economic Development Strategy
CFR	Code of Federal Regulations
CFR	Code of Federal Regulations
CMP	Coastal Management Plan
EFH	Essential Fish Habitat
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Maps
GIS	Geographic Information System
gpm	Gallons per minute
GPS	Global Positioning System
HPA	Historic, Prehistoric, and Archaeologic Area
IHA	Important Habitat Area
ISER	Institute of Social and Economic Research
LRTP	Long-Range Transportation Plan

MEA	Matanuska Electric Association
ML&P	Municipal Light and Power
MOA	Municipality of Anchorage
MWMS	Municipal Watershed Management Services
NOAA	National Oceanographic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
P.L.	Public Law
PD	Municipality of Anchorage Planning Department
PME	Municipality of Anchorage Project Management and Engineering Department
Port	Port of Anchorage
RCA	Recreation and Coastal Access
RPU	Resource Policy Unit
TRF	Transportation Routes and Facilities
U.S.	United States
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Service

APPENDIX D

Definitions

A number of the terms used in coastal management have specific regulatory or procedural meaning. To clarify the intent of the coastal management policies, the following definitions apply to language used in the plan policies.

ACMP is the Alaska Coastal Management Program.

Active floodplain of watercourses is the portion of a floodplain that is periodically inundated or encompassed by a mean annual flood ($Q = 2.33$ flood frequency) and is characterized by active flowing channels, high water channels and adjacent unvegetated or sparsely vegetated bars.

Adjacent has the same meaning as in state law.

11 AAC 112.990 (a) (2) "adjacent" means near but not necessarily touching; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

AMSA has the same meaning as in state law.

AS 46.40.210 (1) "area which merits special attention" means a delineated geographic area within the coastal area which is sensitive to change or alteration and which, because of plans or commitments or because a claim on the resources within the area delineated would preclude subsequent use of the resources to a conflicting or incompatible use, warrants special management attention, or which, because of its value to the general public, should be identified for current or future planning, protection, or acquisition; these areas, subject to council definition of criteria for their identification, include:

- (A) areas of unique, scarce, fragile or vulnerable natural habitat, cultural value, historical significance, or scenic importance;*
- (B) areas of high natural productivity or essential habitat for living resources;*
- (C) areas of substantial recreational value or opportunity;*
- (D) areas where development of facilities is dependent upon the utilization of, or access to, coastal water;*
- (E) areas of unique geologic or topographic significance which are susceptible to industrial or commercial development;*
- (F) areas of significant hazard due to storms, slides, floods, erosion, or settlement; and*
- (G) areas needed to protect, maintain, or replenish coastal land or resources, including coastal flood plains, aquifer recharge areas, beaches, and offshore sand deposits;*

Avoid has the same meaning as in state law.

11 AAC 112.900. Sequencing process to avoid, minimize, or mitigate. (a) As used in this chapter and for purposes of district enforceable policies developed under 11 AAC 114, "avoid, minimize, or mitigate" means a sequencing process of

- (1) avoiding adverse impacts to the maximum extent practicable; (2) where avoidance is not practicable, minimizing adverse impacts to the maximum extent practicable; or (3) if neither avoidance nor minimization is practicable, conducting mitigation to the extent appropriate and practicable; for purposes of this paragraph, "mitigation" means
- (A) on-site rehabilitation of project impacts to affected coastal resources during or at the end of the life of the project; or
- (B) to the extent on-site rehabilitation of project impacts is not practicable, substituting, if practicable, rehabilitation of or an improvement to affected coastal resources within the district, either on-site or off-site, for a coastal resource that is unavoidably impacted.
- (b) For a project that requires a federal authorization identified under 11 AAC 110.400, the coordinating agency shall consult with the authorizing federal agency during that federal agency's authorization review process to determine whether the mitigation requirements proposed by the federal agency for that federal authorization would satisfy the mitigation requirements of (a)(3) of this section. If the coordinating agency determines that the mitigation requirements proposed by the federal agency would not satisfy the mitigation requirements of (a)(3) of this section, the coordinating agency shall require appropriate mitigation in accordance with (a)(3) of this section.
- (c) For purposes of (a)(3) of this section, a determination of practicability includes the consideration of the following factors, as applicable: (1) the magnitude of the functional values lost by the impacted coastal resources;
- (2) the likelihood that the mitigation measure or improvement will succeed in actually rehabilitating the impacted coastal resources; and
- (3) the correlation between the functional values lost by the coastal resources impacted and the proposed mitigation measure or improvement.
- (d) To the extent feasible and not otherwise addressed by state or federal law, any requirements imposed under (a)(3) of this section for mitigation through on-site or off-site rehabilitation of project impacts shall be established by the coordinating agency at the time of the project's consistency review under 11 AAC 110.
- (e) In applying the mitigation process described in (a)(3) of this section, unless required by a federal agency issuing an authorization identified under 11 AAC 110.400 for the project, the coordinating agency may not require
- (1) that no net loss of impacted coastal resources occur; or
- (2) monetary compensation. (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Base Flood means the flood having one percent chance of being equaled or exceeded in any given year. Also referred to as the 100-year flood.

Coastal Processes are the collective results of physical, oceanographic, and meteorologic influences on the geographic landforms and nearshore waters of the Lake and Peninsula Borough. Coastal processes are also influenced by freshwater discharges from major river drainage systems and suspended sediments transported by rivers to coastal waters. Key features of coastal processes are shoreline erosion and accretion.

Coastal Waters has the same meaning as in state law.

11 AAC 112.990. Definitions. (6) "coastal water" means those waters, adjacent to the shorelines, that contain a measurable quantity or percentage of sea water, including sounds, bays, lagoons, ponds, estuaries, and tidally influenced waters; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Consistency means compliance with the standards of the ACMP, including the enforceable policies of this approved coastal plan.

Consistent to the maximum extent practicable means that federal government activities or uses, including development projects affecting the coastal zone of Alaska, are fully consistent with the standards of the ACMP unless compliance would violate another federal law (15 CFR 930.32.(a)).

Cumulative Impacts has the same meaning as in state law.

11 AAC 110.990. Definitions. (a) (19) "cumulative impacts" means reasonably foreseeable effects on a coastal use or resource that result from the incremental impact of an individual project when viewed together with the impacts of past and currently authorized projects; (Eff. 7/1/2004, Register 170)

DEC is the Alaska Department of Environmental Conservation.

DF&G is the Alaska Department of Fish and Game.

Direct and significant impact has the same meaning as in state law.

11 AAC 114.990. Definitions. (13) "direct and significant impact" means an effect of a use, or an activity associated with the use, that will proximately contribute to a material change or alteration of the coastal waters, and in which
(A) the use, or activity associated with the use, would have a net adverse effect on the quality of the resources;
(B) the use, or activity associated with the use, would limit the range of alternative uses of the resources; or
(C) the use would, of itself, constitute a tolerable change or alteration of the resources but which, cumulatively, would have an adverse effect; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Development means any man-made change to improved or unimproved lands and coastal waters, including but not limited to, buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling.

DNR is the Alaska Department of Natural Resources.

Due deference has the same meaning as in state law.

11 AAC 110.990. Definitions. (a) (25) "due deference" means that deference that is appropriate in the context of
(A) the commentor's expertise or area of responsibility; and
(B) all the evidence available to support any factual assertions of the commentor; (Eff. 7/1/2004, Register 170)

Environmentally Responsible means consistent with coastal resource protection and performance standards of this plan, and incorporating current best management practices with protection measures commensurate with the values of habitats affected.

Eolian mean applied to deposits arranged by the wind, as the sands and other loose materials along shores, etc.

Estuary has the same meaning as in state law.

11 AAC 11.990 Definitions. (11) "estuary" means a semiclosed coastal body of water that has a free connection with the sea and within which seawater is measurably diluted with freshwater derived from land drainage; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Facilities related to commercial fishing and seafood processing has the same meaning as in state law.

11 AAC 114.990. Definitions. (17) "facilities related to commercial fishing and seafood processing" includes hatcheries and related facilities, seafood processing plants and support facilities, marine industrial and commercial facilities, and aquaculture facilities; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Feasible and prudent means consistent with sound engineering practice and not causing environmental, social, or economic problems that outweigh the public benefit to be derived from compliance with the standard which is modified by the term "feasible and prudent".

Floodway means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height, usually one foot, at any point.

Fluted ridge means smooth, gutter-like channels, or deep smooth furrows worn in the face of ridges by glacial action.

Fluvial means of, found in, or produced by a river.

Geomorphology means the study of the formation of the earth's topographic features.

Glaciolacustrine means produced by or belonging to glacially formed lakes.

Important fishing areas are areas used consistently over time for commercial, sport, or subsistence fishing. Fishing includes harvesting marine invertebrates and plants.

Important habitats has the same meaning as in state law.

11 AAC 112.300. Habitats. (c) For purposes of this section,
(1) **"important habitat"** means habitats listed in (a)(1) – (8) of this section and other habitats in the coastal area that are
(A) designated under 11 AAC 114.250(h);
(B) identified by the department as a habitat
(i) the use of which has a direct and significant impact on coastal water; and
(ii) that is shown by written scientific evidence to be significantly more productive than adjacent habitat; or
(C) identified as state game refuges, state game sanctuaries, state range areas, or fish and game critical habitat areas under AS 16.20; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Lacustrine means produced by or belonging to lakes.

Local knowledge has the same meaning given in state law except that “generally accepted by the local community” is that body of knowledge that is reflected in local plans, studies, policies and standards.

11 AAC 114.990. Definitions. (22) **"local knowledge"** means a body of knowledge or information about the coastal environment or the human use of that environment, including information passed down through generations, if that information is
(A) derived from experience and observations; and
(B) generally accepted by the local community; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Maintain means to provide for continuation of current conditions and functions.

Mariculture is the captive cultivation of plants and animals in marine and estuarine waters for human consumption.

Mean High Water has the same meaning as in state law.

11 AAC 53.900 (14) “mean high water” means the tidal datum plane of the average of all the high tides, as would be established by the National Geodetic Survey, at any place subject to tidal influence; (Eff. 3/27/80, Register 73; am 7/5/2001, Register 159)

Mean Higher High Water is the average of all the daily higher high water recorded over a 19-year period or a computed equivalent period. It is usually associated with a tide exhibiting mixed characteristics.

Mean Lower Low Water has the same meaning as in state law.

11 AAC 53.900 (17) “mean lower low water” means the tidal datum plane of the average of the lower of the two low waters of each day, as would be established by the National Geodetic Survey, at any place subject to tidal influence; (Eff. 3/27/80, Register 73; am 7/5/2001, Register 159)

Minimize has the same meaning as in state law (see Avoid, Minimize and Mitigate).

Mitigate has the same meaning as in state law (see Avoid, minimize and Mitigate).

Natural Hazard is a condition created by a geological process, topography, water drainage, or unique weather condition that presents a significant hazard to life and property. See State Standard.

11 AAC 112.990. Definitions. (15) “natural hazards”

- (A) means the following natural processes or adverse conditions that present a threat to life or property in the coastal area: flooding, earthquakes, active faults, tsunamis, landslides, volcanoes, storm surges, ice formations, snow avalanches, erosion, and beach processes;*
- (B) includes other natural processes or adverse conditions designated by the department or by a district in a district plan; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)*

One Hundred Year Flood is a flood of a magnitude, which can be expected to occur on an average of once every 100 years. It is possible for this size flood to occur during any year, and possible in successive years. It would have a one percent chance of being equaled or exceeded in any year. Statistical analysis of available stream flow or storm records, or analysis of rainfall or runoff characteristics of the watershed, or topography and storm characteristics are used to determine the extent and depth of the 100-year flood.

OPMP is the Office of Project Management and Permitting with the Department of Natural Resources.

Ordinary high water has the same meaning as in state law.

11 AAC 53.900 (23) “Ordinary high water” means the mark along the bank or shore up to which the presence and action of non-tidal water are so common and usual, and so long continued in all ordinary years, as to leave a natural line impressed on the bank or shore and indicated by erosion, shelving, changes in soil characteristics, destruction of terrestrial vegetation, or other distinctive physical characteristics.; (Eff. 3/27/80, Register 73; am 7/5/2001, Register 159)

Paludal means pertaining to swamps or marshes, and to deposits deposited in a swamp environment.

Practicable has the same meaning as in state law.

11 AAC 112.990. Definitions. (18) "practicable" means feasible in light of overall project purposes after considering cost, existing technology, and logistics of compliance with the standard; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Proper and improper uses are the can-do and can't-do uses for the area.

Public need has the same meaning as in state law except that “documented” includes those needs expressed in locally adopted plans, studies, policies and standards.

11 AAC 114.990 (35) "public need" means a documented need of the general public and not that of a private person; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Resource agency has the same meaning as in state law.

*Sec. 46.39.010. (2) "resource agency" means
(A) the Department of Environmental Conservation;
(B) the Department of Fish and Game; or
(C) the Department of Natural Resources.*

Saltwater wetlands has the same meaning as in state law. (see also “wetlands”)

11 AAC 112.990. Definitions. (25) "saltwater wetlands" means those coastal areas along sheltered shorelines characterized by halophilic hydrophytes and macroalgae extending from extreme low tide to an area above extreme high tide that is influenced by sea spray or tidally induced water table changes; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Shall means mandatory; it requires a course of action or set of conditions to be achieved.

Should states intent for a course of action or set of conditions to be achieved. This implies that case-specific discretion may be applied for achieving the intent of the action.

Significant adverse impact means an impact as indicated in state law by “direct and significant impact”.

Subject uses is a description of the land and water uses and activities which are subject to the district plan.

Subsidence is a lowering in elevation of ground surface due to underground geologic or hydrologic change. It can be a common occurrence in areas susceptible to seismic activity and where excessive water table depletion occurs.

Subsistence Use Areas are coastal habitat areas, used traditionally or occasionally in response to seasonal or cyclic resource abundance, where subsistence harvests of fish, wildlife, and other biological resources are conducted.

Subsistence uses has the same meaning as in state law.

AS 16.05.940 (33) "subsistence uses" means the noncommercial, customary and traditional uses of wild, renewable resources by a resident domiciled in a rural area of the state 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 by-products of fish and wildlife resources taken for personal or family consumption, and for the customary trade, barter, or sharing for personal or family consumption; in this paragraph, "family" means persons related by blood, marriage, or adoption, and a person living in the household on a permanent basis; (Eff. ///; Register)

Surface Waters include streams, rivers, ponds, lakes, and contiguous open water wetlands.

Tsunami is a great sea wave produced by submarine earth movements or volcanic eruption.

Uses of state concern has the meaning as in state law.

AS 46.40.210 (12) "uses of state concern" means those land and water uses that would significantly affect the long-term public interest; "uses of state concern" include
(A) uses of national interest, including the use of resources for the siting of ports and major facilities that contribute to meeting national energy needs, construction and maintenance of navigational facilities and systems, resource development of federal land, and national defense and related security facilities that are dependent upon coastal locations;
(B) uses of more than local concern, including those land and water uses that confer significant environmental, social, cultural, or economic benefits or burdens beyond a single coastal resource district;
(C) the siting of major energy facilities, activities pursuant to a state or federal oil and gas lease, or large-scale industrial or commercial development activities that are dependent on a coastal location and that, because of their magnitude or the magnitude of their effect on the economy of the state or the surrounding area, are reasonably likely to present issues of more than local significance;
(D) facilities serving statewide or interregional transportation and communication needs; and
(E) uses in areas established as state parks or recreational areas under AS 41.21 or as state game refuges, game sanctuaries, or critical habitat areas under AS 16.20.

Waterbody means any area of surface water with a permanent minimum surface area of 2,500 square feet (see *Anchorage Wetlands Management Plan*).

Water-Dependent has the same meaning as in state law.

11 AAC 112.990. Definitions. (31) "water-dependent" means a use or activity that can be carried out only on, in, or adjacent to a water body because the use requires access to the water body;

(32) "water-related" means a use or activity that is not directly dependent upon access to a water body, but which provides goods or services that are directly associated with water-dependence and which, if not located adjacent to a water body, would result in a public loss of quality in the goods or services offered; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

Waterfront means the area along the coastline between mean higher high water and mean high sea level.

Water-Related has the same meaning in state law.

Wetlands has the same meaning as in state law.

11 AAC 112.990. Definitions. (33) "wetlands" means saltwater wetlands and those freshwater wetlands that have a direct drainage to coastal waters; (Eff. 7/1/2004, Register 170; am 10/29/2004, Register 172)

APPENDIX E

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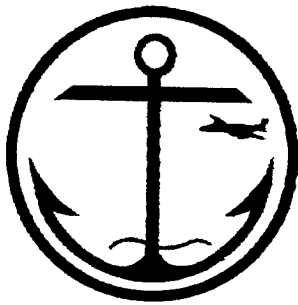
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APPENDIX F

Description of ASIDESS Model

Anchorage Sensitivity Index Decision Support System ASIDESS User Guide

July 21, 2005, AeroMap U.S.



**Anchorage Sensitivity Index
Decision Support System**

ASIDESS User Guide



July 21, 2005

AERO MAP U.S.

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Introduction

The Anchorage Sensitivity Index Decision Support System (ASIDESS) is a Decision Support System (DSS) that enables the user to explore the sensitivity of areas within the Anchorage Bowl to development. The Sensitivity Index score for each pixel is derived from the cumulative results for each of four types of impacts to sensitivity based on 21 datasets. These data sets are grouped into five different topics: Aquatic, Coastal and Public Access, Geotechnical Hazards, Habitat and Human Impacts. Four of these classes contribute to the score. One, Coastal and Public Access, provides contextual information for the model users.

ASIDESS employs a standard weighting and rating methodology to derive the scores for each pixel. Each data set is converted to raster (if not already in raster format) and the resulting pixels are each assigned a value from 0-4 based on their attribute. The user may adjust these rates. These values are combined for each of the four contributing classes. Finally, the Aquatic, Geotechnical Hazards, Habitat and Human Impacts results are normalized and weights are applied based on user preferences. The resulting data set indicates each pixel's sensitivity to development based on the weights and rates used for the model run.

ASIDESS is built in ArcGIS using ModelBuilder and provides a simple interface and a repeatable procedure that allows for data updates and comparisons between different scenarios. The user may update data sets and change the class weights using this primary interface. Changes to the data set rates may be performed through the standard ModelBuilder interface.

ASIDESS consists of seven models and a custom interface. Detailed information about the components comprises the remainder of this document. The following documentation includes a graphic of each model and the Help files created during this project to assist the user with the custom interface and the ModelBuilder models.

Area of Interest boundaries may be set by keying in coordinates or by referring to a shapefile that contains a rectangle defining the AOI. The place to do this is in the Environment Settings window, reached by going to the MOA toolbar under the main menu. Look for a tool icon labeled "Area Properties". In the Properties window choose the Environment tab. Under the Values button, click on the Environment Settings and click on the area that says "Sample AOI Center". Then type in the polygon name you want to use for the rectangle. Then browse to a shapefile that contains the data. The shapefile should contain a rectangle that defines the area of interest.

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File Edit View Insert Selection Tools Window Help

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Layer: marine polygon

Geostatistical Analyst

Editor Task: Create

Layers

- marine polygon

Layer Properties

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Show:

Features

Categories

- Unique values
- Unique values, many to one
- Match to symbols in a layer

Quantities

Charts

Multiple Attributes

Draw categories using unique values of one field.

Value Field: TYPE

Color Scheme

Symbol	Value	Label
☒	<all other values>	<all other values>
	<Heading>	TYPE
	COASTLAND	COASTLAND
	ISLAND	ISLAND
	MARINE WATER	MARINE WATER
	MUDFLAT	MUDFLAT
	STREAM	STREAM

Add All Values Add Values... Remove Remove

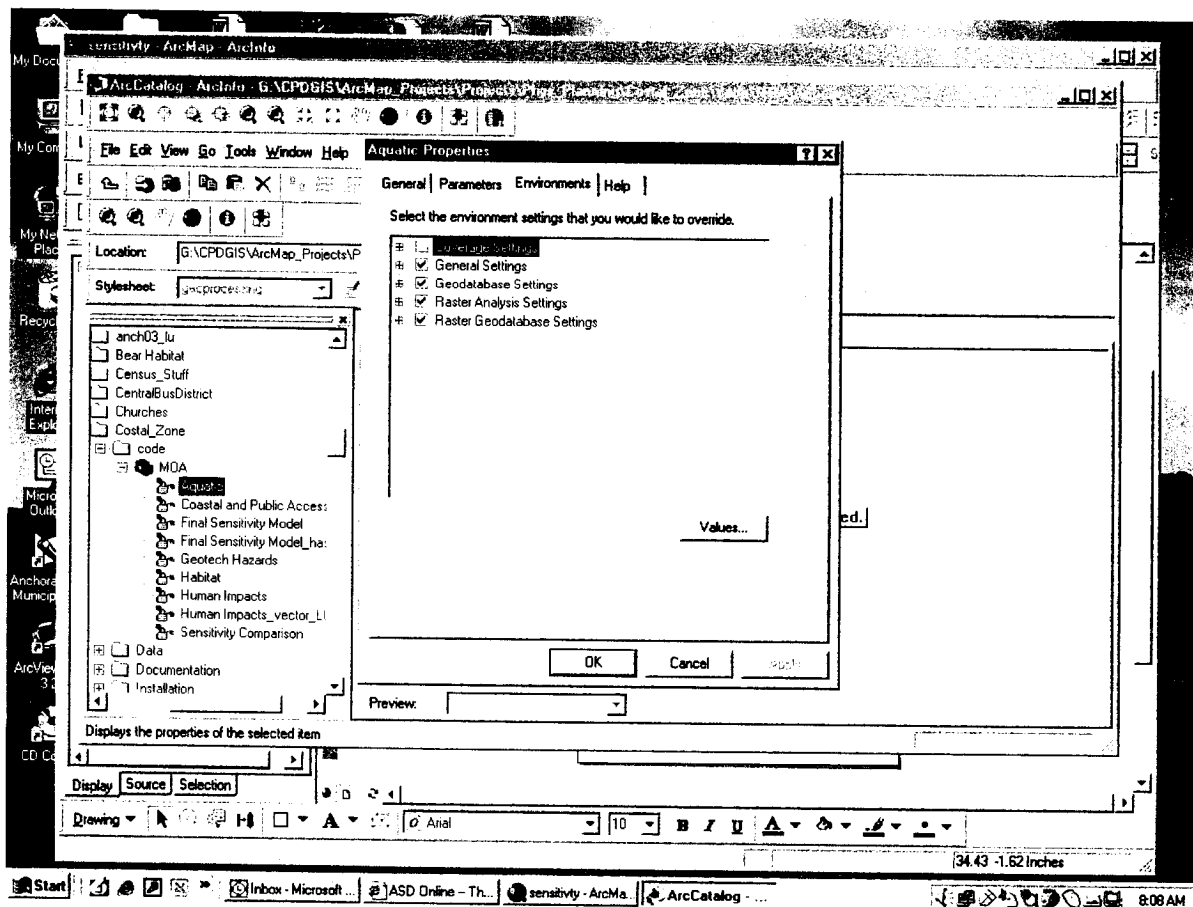
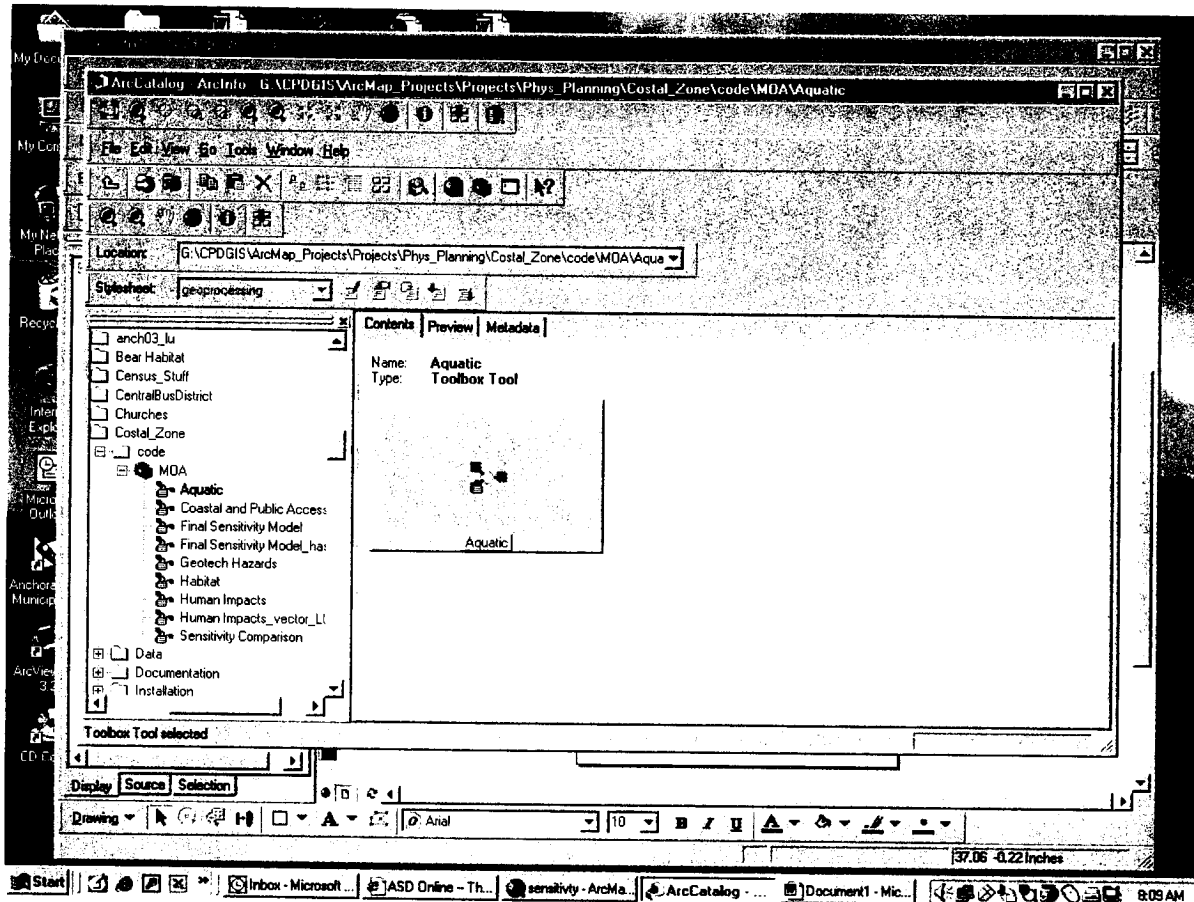
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Script Example

▼Model

Elements

Name	Explanation
Normalize Habitat	Multiplication factor used to normalize the values of each of the topics. This adjusts the values of the final data set for each submodel so that they are on the same scale (0-20) and mitigates the effects of some models requiring more data sets than others. Habitat = 0.55556
Habitats Weight	Multiplies the normalized Habitat data by the weight assigned by the user. Default = 30
Normalize Geotech	Multiplication factor used to normalize the values of each of the topics. This adjusts the values of the final data set for each submodel so that they are on the same scale (0-20) and mitigates the effects of some models requiring more data sets than others. Geotech = 1
Geotechnical Weight	Multiplies the normalized Geotechnical data by the weight assigned by the user. Default = 30
Normalize Aquatic Resources	Multiplication factor used to normalize the values of each of the topics. This adjusts the values of the final data set for each submodel so that they are on the same scale (0-20) and mitigates the effects of some models requiring more data sets than others. Aquatic Resources = 1
Aquatic Resources Weight	Multiplies the normalized Aquatic Resources data by the weight assigned by the user. Default = 30

Name	Explanation
Normalize Human Impacts	Multiplication factor used to normalize the values of each of the topics. This adjusts the values of the final data set for each submodel so that they are on the same scale (0-20) and mitigates the effects of some models requiring more data sets than others. Human Impacts = 5
Human Impact Weight	Multiplies the normalized Human Impacts data by the weight assigned by the user. Default = 10
Combine Weighted Inputs	Calculates the sum of the normalized and weighted data from each topic.

Aquatic Model

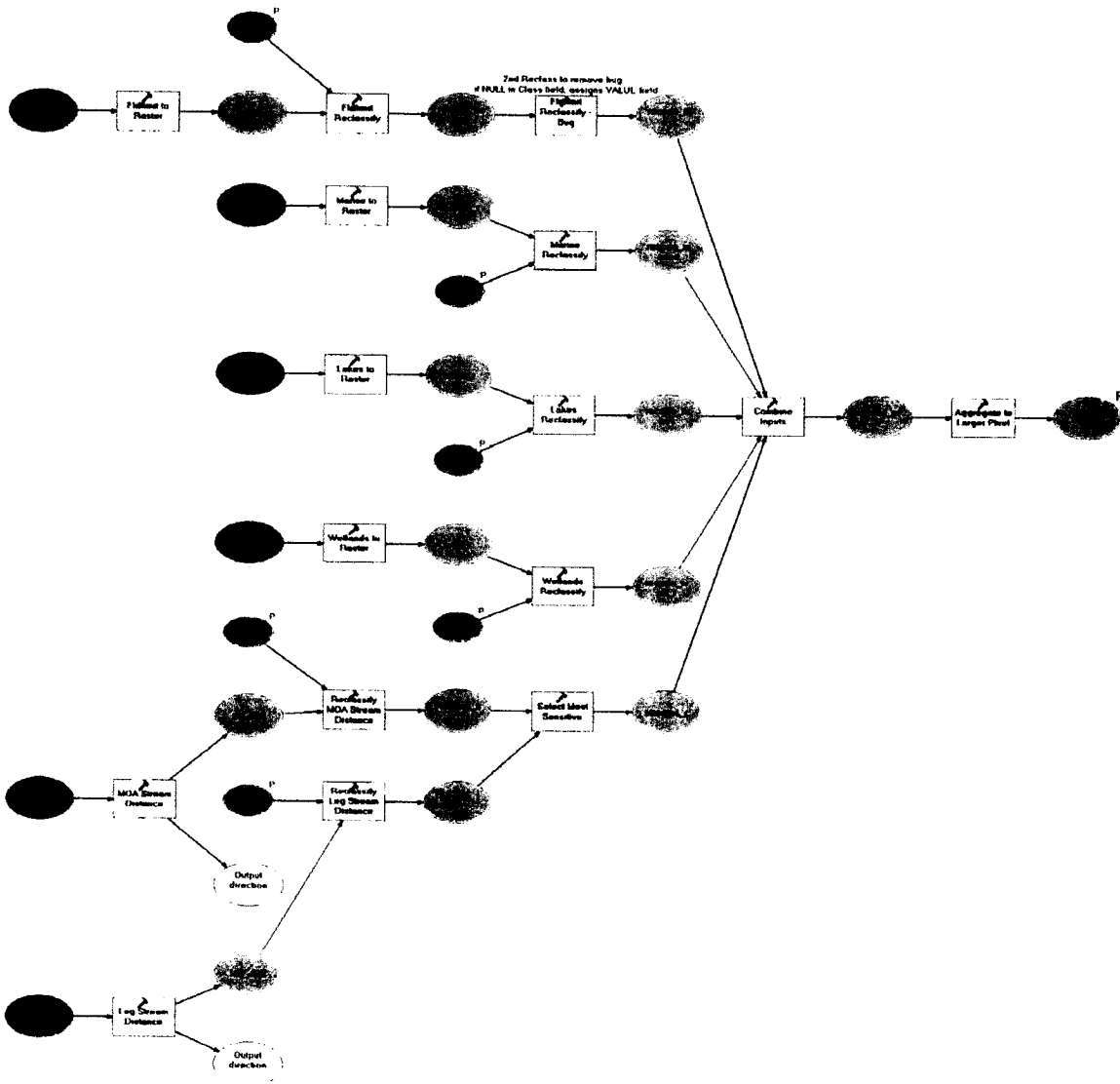


Figure 3: Aquatic Model

Aquatic

collapse all

This tool is one component of the Anchorage Sensitivity Index Decision Support System (ASIDESS). ASIDESS is designed to assist in the assessment of development plans for areas in the Anchorage Bowl with regards to the Coastal Management Plan. Twenty-one different data sets grouped into four topics contribute to the output data set. The four topics are: Aquatic Resources, Habitat, Geotechnical Hazards and Human Impacts. A fifth topic, Coastal and Public Access is also a component of the model, but does not contribute to the output sensitivity data. Rather, it creates a data set that can inform the user as to the accessibility of areas within the coastal zone management area.

The Aquatic Resources model incorporates the streams, lakes, marine areas, wetlands, and flood zones of the Anchorage Bowl into the assessment model.

Each data set is converted to raster and then rated on a scale of 0 - 4 for sensitivity to development. 0 is not sensitive and 4 is most sensitive.

Note: The input data sets do not cover the same areas. Some areas, especially on the eastern edge of the study area, are not well covered. Areas covered by fewer data sets have a lower possible total score.

▼ Usage Tips

The use of models enables a repeatable, flexible process that can incorporate updated data or even new data sets. Updates to the data are almost automatic, assuming the revised data set has the same name and is in the same location as the original data set.

If a data set has been updated, run the model to update the final output of the model, Aquatic.

To edit the rates assigned to any data set, open the model, select the reclassification function and change the rates to the desired values.

▼ Command line syntax

Aquatic <aquatic> <Fldlimit_Reclassification> <Marine_Reclassification> <Lakes_Reclassification> <Wetlands_Reclassification> <MOA_Streams_Reclassification> <Leg_Streams_Reclassification>

Parameters

Expression

Explanation

<aquatic>

Name of the file to be output. If this is changed, it might not be read by the Final Sensitivity Model.

- Default is Aquatic

<Fldlimit_Reclassification>

Rating values for the Fldlimit data set

Expression	Explanation
<Marine_Reclassification>	Rating values for the Marine data set
<Lakes_Reclassification>	Rating values for the Lakes data set
<Wetlands_Reclassification>	Rating values for the Wetlands data set
<MOA_Streams_Reclassification>	Rating values for the MOA Streams data set
<Leg_Streams_Reclassification>	Rating values for the Leg Streams data set

Command Line Example

▼Scripting syntax

Aquatic (aquatic, Fldlimit_Reclassification, Marine_Reclassification, Lakes_Reclassification, Wetlands_Reclassification, MOA_Streams_Reclassification, Leg_Streams_Reclassification)

Parameters

Expression	Explanation
aquatic (Required)	Name of the file to be output. If this is changed, it might not be read by the Final Sensitivity Model. • Default is Aquatic
Fldlimit Reclassification (Required)	Rating values for the Fldlimit data set
Marine Reclassification (Required)	Rating values for the Marine data set
Lakes Reclassification (Required)	Rating values for the Lakes data set
Wetlands Reclassification (Required)	Rating values for the Wetlands data set
MOA Streams Reclassification (Required)	Rating values for the MOA Streams data set
Leg Streams Reclassification (Required)	Rating values for the Leg Streams data set

Script Example

▼Model

Elements

Name	Explanation
Leg Stream Distance	Calculates the distance a cell is from a Leg Stream. Cell size is 82.
MOA Stream Distance	Calculates the distance a cell is from an MOA Stream. Cell size is 82.
Marine to Raster	Converts Marine data to raster using the Type field.
Marine Reclassify	Reclassify the Marine Type data to numeric ratings.
Lakes to Raster	Converts Lakes data to raster using the Plot field.
Lakes Reclassify	Reclassify the Lakes Plot data to numeric ratings.
Fldlimit to Raster	Converts Fldlimit data to raster using the Class field.
Fldlimit Reclassify	Reclassify the Floodlimit Class data to numeric ratings.
Fldlimit Reclassify - Bug Workaround	This reclassify is a bug workaround. If a feature does not have a value in the Class field, the value from the Value field is inserted in the Class field. This function corrects this bug for the Fldlimit data only.
Reclassify Leg Stream Distance	Reclassify the Leg Stream distance data to numeric ratings.
Reclassify MOA Stream Distance	Reclassify the MOA Stream distance data to numeric ratings.
Select Most Sensitive	Using the Map Algebra function "Max", selects the most sensitive rating for a cell from the two stream distance data sets. The more sensitive (greater number) of the data sets is output to Streams_r

Name	Explanation
Wetlands to Raster	Converts Wetlands data to raster using the Designation field.
Wetlands Reclassify	Reclassify the Wetlands Designation data to numeric ratings.
Combine Inputs	Uses the Map Algebra "Sum" function to add the values from the input data sets to determine the sensitivity of a cell to development for Aquatic Resources.
Aggregate to Larger Pixel	Aggregates the combined data to 82 foot pixels from 20.5 foot pixels using the Maximum specification.

Coastal and Public Access

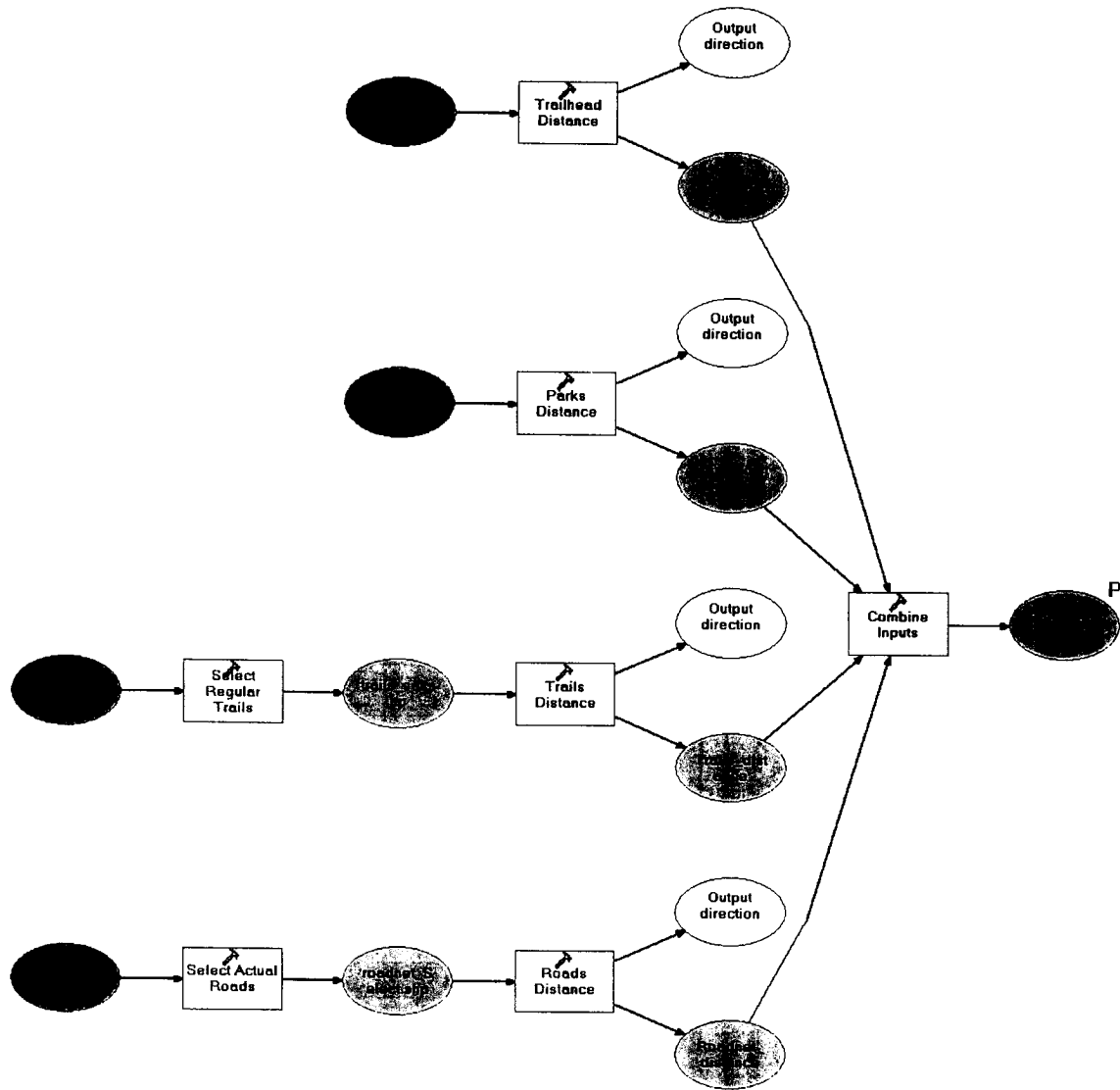


Figure 4: Coastal and Public Access Model

Coastal and Public Access

[collapse all](#)

This tool is one component of the Anchorage Sensitivity Index Decision Support System (ASIDESS). ASIDESS is designed to assist in the assessment of development plans for areas in the Anchorage Bowl with regards to the Coastal Management Plan.

Coastal and Public Access is also a component of the model, but does not contribute to the output sensitivity data. Rather, it creates a data set that can inform the user as to the accessibility of areas within the coastal zone management area.

The Coastal and Public Access model calculates the distance cells are from Roads, Parks, Trails and Trailheads.

▼Usage Tips

The use of models enables a repeatable, flexible process that can incorporate updated data or even new data sets. Updates to the data are almost automatic, assuming the revised data set has the same name and is in the same location as the original data set.

If a data set has been updated, run the model to update the final output of the model, Coastal and Public Access.

▼Command line syntax

Coastal and Public Access <Coast_access>

Parameters

Expression	Explanation
<Coast_access>	Name of the file to be output. • Default is Coast_access.

Command Line Example

▼Scripting syntax

Coastal and Public Access (Coast_access)

Parameters

Expression	Explanation
Coast_access (Required)	Name of the file to be output.

Expression**Explanation**

- Default is Coast_access.

Script Example**▼Model****Elements****Name****Explanation**

Parks Distance

Calculates the distance a cell is from a Park. Cell size is 82.

Select Regular Trails

Trails Distance

Calculates the distance a cell is from a Trail. Cell size is 82.

Select Actual Roads

Roads Distance

Calculates the distance a cell is from an Road. Cell size is 82.

Trailhead Distance

Calculates the distance a cell is from a Trailhead. Cell size is 82.

Combine Inputs

Uses the Map Algebra "Min" function determine the minimum distance a cell is from a Trailhead, Park, Trail, or Raod.

Geotechnical Hazards

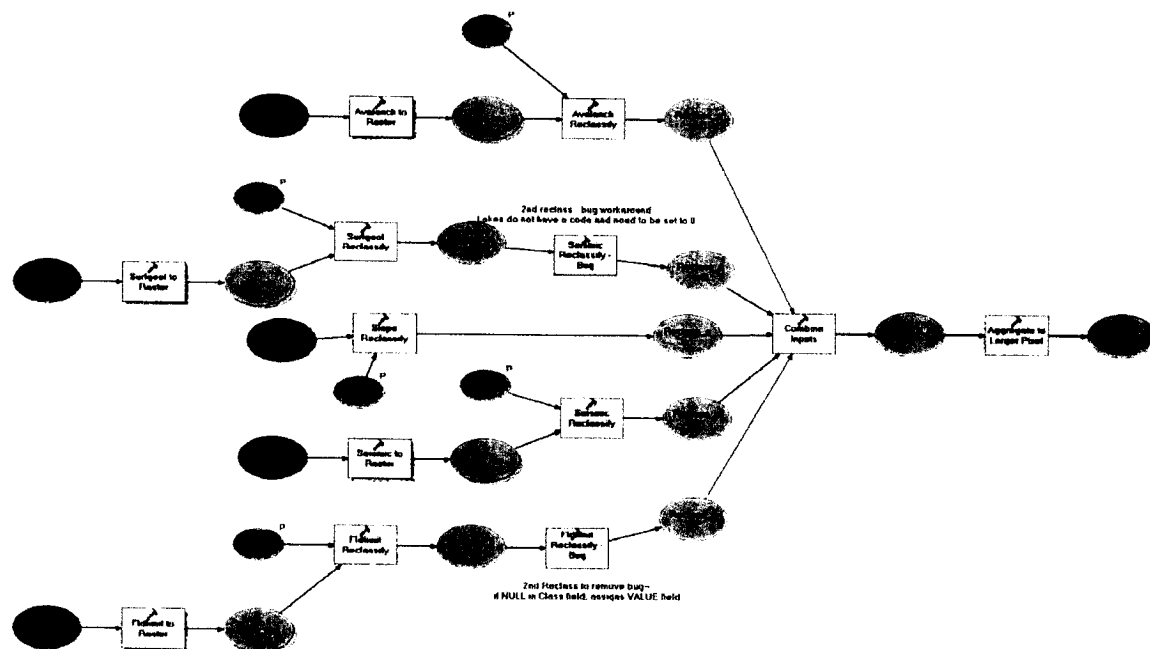


Figure 5: Geotechnical Hazards Model

Geotech Hazards

[collapse all](#)

This tool is one component of the Anchorage Sensitivity Index Decision Support System (ASIDESS). ASIDESS is designed to assist in the assessment of development plans for areas in the Anchorage Bowl with regards to the Coastal Management Plan.

The Geotech Hazards model incorporates avalanche, surficial geology, seismic data, and flood zones of the Anchorage Bowl into the assessment model.

Each data set is converted to raster and then rated on a scale of 0 - 4 for sensitivity to development. 0 is not sensitive and 4 is most sensitive.

Note: The input data sets do not cover the same areas. Some areas, especially on the eastern edge of the study area, are not well covered. Areas covered by fewer data sets have a lower possible total score.

▼Usage Tips

The use of models enables a repeatable, flexible process that can incorporate updated data or even new data sets. Updates to the data are almost automatic, assuming the revised data set has the same name and is in the same location as the original data set.

If a data set has been updated, run the model to update the final output of the model, Geotech.

To edit the rates assigned to any data set, open the model, select the reclassification function and change the rates to the desired values.

▼Command line syntax

Geotech Hazards <Avalanch_Reclassification> <Surfgeol_Reclassification> <Seismic_Reclassification> <Fldlimit_Reclassification> <Slope_Reclassification> <geotech>

Parameters

Expression	Explanation
<Avalanch_Reclassification>	Rating values for the Avalanch data set
<Surfgeol_Reclassification>	Rating values for the Surfgeol data set
<Seismic_Reclassification>	Rating values for the Seismic data set
<Fldlimit_Reclassification>	Rating values for the Fldlimit data set

Expression**Explanation**

<Slope_Reclassification>

Rating values for the Slope data set

<geotech>

Name of the file to be output. If this is changed, it might not be read by the Final Sensitivity Model.

- Default is Geotech

Command Line Example**▼Scripting syntax**

Geotech Hazards (Avalanch_Reclassification, Surfgeol_Reclassification, Seismic_Reclassification, Fldlimit_Reclassification, Slope_Reclassification, geotech)

Parameters**Expression****Explanation**

Avalanch Reclassification (Required)

Rating values for the Avalanch data set

Surfgeol Reclassification (Required)

Rating values for the Surfgeol data set

Seismic Reclassification (Required)

Rating values for the Seismic data set

Fldlimit Reclassification (Required)

Rating values for the Fldlimit data set

Slope Reclassification (Required)

Rating values for the Slope data set

geotech (Required)

Name of the file to be output. If this is changed, it might not be read by the Final Sensitivity Model.

- Default is Geotech

▼Model**Elements****Name****Explanation**

Name	Explanation
Avalanch to Raster	Converts Avanch data to raster using the AVCODE field.
Avalanch Reclassify	Reclassify the Avalanch VALUE data to numeric ratings.
Seismic to Raster	Converts Seismic data to raster using the CODE field.
Seismic Reclassify	Reclassify the Seismic CODE data to numeric ratings.
Surfgeol to Raster	Converts Surfgeol data to raster using the UNIT_ABBV field.
Surfgeol Reclassify	Reclassify the Surfgeol UNIT_ABBV data to numeric ratings.
Seismic Reclassify - Bug	This reclassify is a bug workaround. If a feature does not have a value in the UNIT_ABBV field, the value from the Value field is inserted in the UNIT_ABBV field. This function corrects this bug for the Seismic data only.
Fldlimit to Raster	Converts Fldlimit data to raster using the Class field.
Fldlimit Reclassify	Reclassify the Floodlimit Class data to numeric ratings.
Fldlimit Reclassify - Bug Workaround	This reclassify is a bug workaround. If a feature does not have a value in the Class field, the value from the Value field is inserted in the Class field. This function corrects this bug for the Fldlimit data only.
Slope Reclassify	
Combine Inputs	Uses the Map Algebra "Sum" function to add the values from the input data sets to determine the sensitivity of a cell to development for Geotechnical Hazards.
Aggregate to Larger Pixel	Aggregates the combined data to 82 foot pixels from 20.5 foot pixels using the Maximum specification.

Habitat

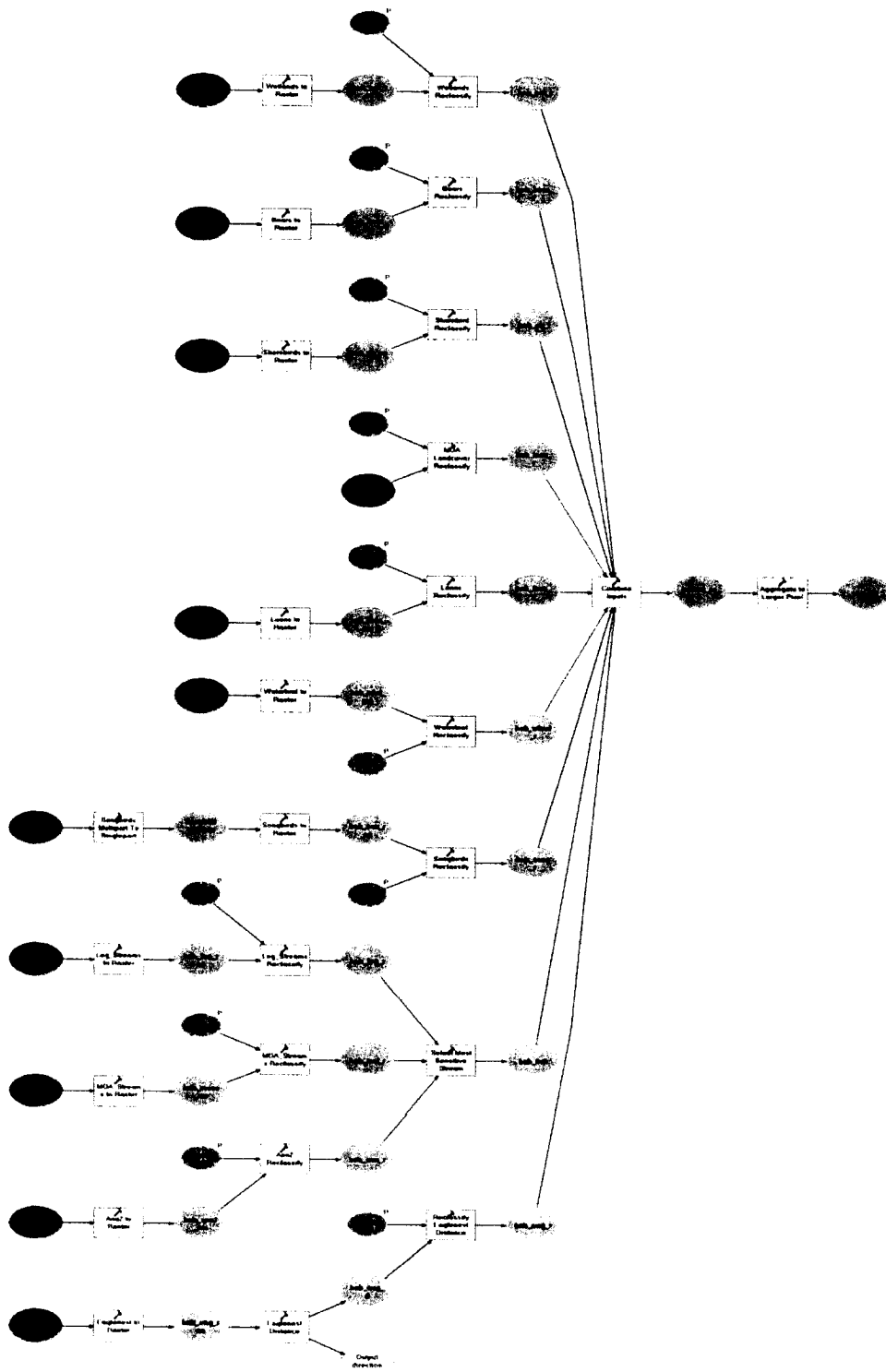


Figure 6: Habitat Model

Habitat

[collapse all](#)

This tool is one component of the Anchorage Sensitivity Index Decision Support System (ASIDESS). ASIDESS is designed to assist in the assessment of development plans for areas in the Anchorage Bowl with regards to the Coastal Management Plan.

The Habitat model incorporates habitat data for bears, shorebirds, loons, waterfowl, songbirds, known eagle nests, wetlands, landcover, and fish habitat data for the Anchorage Bowl into the assessment model.

Each data set is converted to raster and then rated on a scale of 0 - 4 for sensitivity to development. 0 is not sensitive and 4 is most sensitive.

Note: The input data sets do not cover the same areas. Some areas, especially on the eastern edge of the study area, are not well covered. Areas covered by fewer data sets have a lower possible total score.

▼Usage Tips

The use of models enables a repeatable, flexible process that can incorporate updated data or even new data sets. Updates to the data are almost automatic, assuming the revised data set has the same name and is in the same location as the original data set.

If a data set has been updated, run the model to update the final output of the model, Habitat

To edit the rates assigned to any data set, open the model, select the reclassification function and change the rates to the desired values.

▼Command line syntax

```
Habitat <MOA_Landcover_Reclassification> <Wetlands_Reclassification> <Bears_Reclassification>
<Waterfowl_Reclassification> <Loons_Reclassification> <Shorebird_Reclassification>
<Eaglenest_Dist__Reclassification> <Leg_Streams_Reclassification>
<MOA_Streams_Reclassification> <Ana2_Reclassification> <Songbirds_Reclassification> <Habitat>
```

Parameters

Expression	Explanation
<MOA_Landcover_Reclassification>	Rating values for the MOALandcover data set
<Wetlands_Reclassification>	Rating values for the E03MWetlands data set
<Bears_Reclassification>	Rating values for the Bears data set
<Waterfowl_Reclassification>	Rating values for the Watfowl data set

Expression	Explanation
<Loons_Reclassification>	Rating values for the Loonnest data set
<Shorebird_Reclassification>	Rating values for the Shbird data set
<Eaglenest_Dist__Reclassification>	Rating values for the Eaglenst data set
<Leg_Streams_Reclassification>	Rating values for the Leg_Streams data set
<MOA_Streams_Reclassification>	Rating values for the MOA_Streams data set
<Ana2_Reclassification>	Rating values for the Ana2 data set
<Songbirds_Reclassification>	Rating values for the Songbird data set
<Habitat>	Name of the file to be output. If this is changed, it might not be read by the Final Sensitivity Model. • Default is Habitat

Command Line Example

▼Scripting syntax

Habitat (MOA_Landcover_Reclassification, Wetlands_Reclassification, Bears_Reclassification, Waterfowl_Reclassification, Loons_Reclassification, Shorebird_Reclassification, Eaglenest_Dist__Reclassification, Leg_Streams_Reclassification, MOA_Streams_Reclassification, Ana2_Reclassification, Songbirds_Reclassification, Habitat)

Parameters

Expression	Explanation
MOA Landcover Reclassification (Required)	Rating values for the MOALandcover data set
Wetlands Reclassification (Required)	Rating values for the E03MWetlands data set
Bears Reclassification (Required)	Rating values for the Bears data set

Expression**Explanation**

Waterfowl Reclassification
(Required)

Rating values for the Waterfowl data set

Loons Reclassification (Required)

Rating values for the Loonnest data set

Shorebird Reclassification
(Required)

Rating values for the Shbird data set

Eaglenest Dist. Reclassification
(Required)

Rating values for the Eaglenst data set

Leg_Streams Reclassification
(Required)

Rating values for the Leg_Streams data set

MOA_Streams Reclassification
(Required)

Rating values for the MOA_Streams data set

Ana2 Reclassification (Required)

Rating values for the Ana2 data set

Songbirds Reclassification
(Required)

Rating values for the Songbird data set

Habitat (Required)

Name of the file to be output. If this is changed, it might not be read by the Final Sensitivity Model.

- Default is Habitat

Script Example**▼Model****Elements****Name****Explanation**

Eaglenest to Raster

Converts Eaglenest data to raster by indicating each 20.5 ft cell an eaglesnest falls into.

Eaglenest Distance

Reclassify Eaglenest Distance

Reclassify the Eaglenest distance data to numeric ratings.

Wetlands to Raster

Converts Wetlands data to raster using the Designation

Name	Explanation
	field.
Wetlands Reclassify	Reclassify the Wetlands Designation data to numeric ratings.
Leg_Streams to Raster	Converts Leg_Streams data to raster by indicating each 20.5 ft cell a stream falls into.
Leg_Streams Reclassify	Reclassify the Leg_Streams data to numeric ratings.
MOA_Streams to Raster	Converts MOA_Streams data to raster by indicating each 20.5 ft cell a stream falls into.
MOA_Streams Reclassify	Reclassify the MOA_Streams data to numeric ratings.
Ana2 to Raster	Converts Ana2 data to raster by indicating each 20.5 ft cell a stream falls into.
Ana2 Reclassify	Reclassify the Ana2 (Anadramous Fish) streams data to numeric ratings.
Select Most Sensitive Stream	
Bears to Raster	Converts Bears data to raster using the ORIG_DATA field.
Bears Reclassify	Reclassify the Bears ORIG_DATA data to numeric ratings.
Shorebirds to Raster	Converts Shorebirds data to raster using the MIGRATION field.
Shorebird Reclassify	Reclassify the Shorebird MIGRATION data to numeric ratings.
Loons to Raster	Converts Loons data to raster.

Name	Explanation
Loons Reclassify	Reclassify the Loons data to numeric ratings.
Waterfowl to Raster	Converts Waterfowl data to raster using the WINTER field.
Waterfowl Reclassify	Reclassify the Waterfowl WINTER data to numeric ratings.
Songbirds Multipart To Singlepart	
Songbirds to Raster	Converts Songbirds data to raster using the NUMBER field.
Songbirds Reclassify	Reclassify the Songbirds data to numeric ratings.
MOA Landcover Reclassify	Reclassify the MOA Landcover CALC_CLASS data to numeric ratings.
Combine Inputs	Uses the Map Algebra "Sum" function to add the values from the input data sets to determine the sensitivity of a cell to development for Habitat.
Aggregate to Larger Pixel	Aggregates the combined data to 82 foot pixels from 20.5 foot pixels using the Maximum specification.

Human Impacts

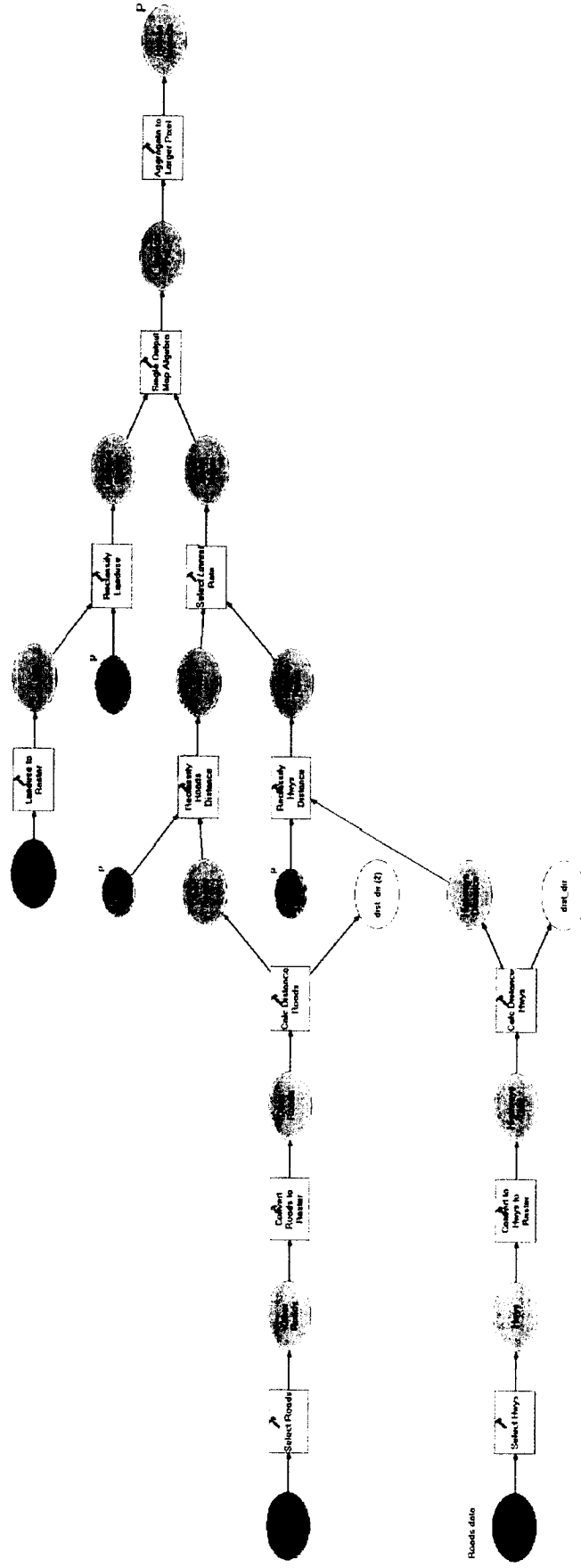


Figure 7: Human Impacts Model

Human Impacts

[collapse all](#)

This tool is one component of the Anchorage Sensitivity Index Decision Support System (ASIDESS). ASIDESS is designed to assist in the assessment of development plans for areas in the Anchorage Bowl with regards to the Coastal Management Plan.

The Human Impacts model includes Roads and Land Use data. It assesses the effects of existing Roads and Land Use codes on the current sensitivity of an area to development.

Each data set is converted to raster and then rated on a scale of 0 - 4 for sensitivity to development. 0 is not sensitive and 4 is most sensitive.

▼ Usage Tips

The use of models enables a repeatable, flexible process that can incorporate updated data or even new data sets. Updates to the data are almost automatic, assuming the revised data set has the same name and is in the same location as the original data set.

If a data set has been updated, run the model to update the final output of the model, H_impact_g.

To edit the rates assigned to any data set, open the model, select the reclassification function and change the rates to the desired values.

WARNING: The Land Use data takes exceptionally long to translate to raster.

▼ Command line syntax

Human Impacts2 <Land_Use_Reclassification> <Road_Distance_Reclassification>
<Hwy_Distance_Reclassification> <Human_Impacts>

Parameters

Expression	Explanation
<Land_Use_Reclassification>	Rating values for the Landuse data set
<Road_Distance_Reclassification>	Rating values for the Road_dist data set
<Hwy_Distance_Reclassification>	Rating values for the Hwy_dist data set
<Human_Impacts>	Name of the file to be output. If this is changed, it might not be read by the Final Sensitivity Model. • Default is H_impact_g

▼Scripting syntax

Human Impacts2 (Land_Use_Reclassification, Road_Distance_Reclassification, Hwy_Distance_Reclassification, Human_Impacts)

Parameters

Expression	Explanation
Land Use Reclassification (Required)	Rating values for the Landuse data set
Road Distance Reclassification (Required)	Rating values for the Road_dist data set
Hwy Distance Reclassification (Required)	Rating values for the Hwy_dist data set
Human Impacts (Required)	Name of the file to be output. If this is changed, it might not be read by the Final Sensitivity Model. • Default is H_impact_g

▼Model

Elements

Name	Explanation
Select Hwys	Selects only the Highways (CFCC=A10) from the Roadnet data.
Convert to Hwys to Raster	Translates the non-highway (CFCC<>A10) Roadnet data to raster format.
Calc Distance Hwys	Calculates the distance of each cell from a Highway.
Select Roads	Selects roads that are NOT highways from the Roadnet data.
Convert Roads to Raster	Translates the non-highway (CFCC<>A10) Roadnet data to raster format.
Calc Distance Roads	Calculates the distance of each cell from a Road

Sensitivity Comparison

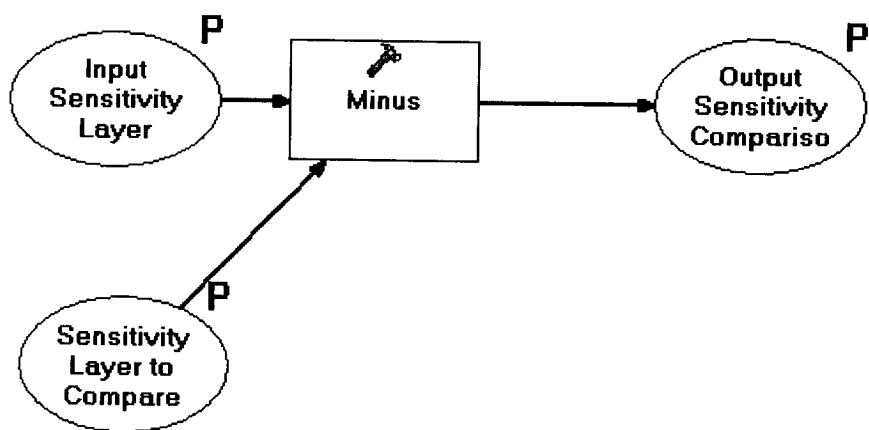


Figure 8: Sensitivity Comparison Model

Sensitivity Comparison

collapse all

Compares the outputs of two selected model runs to indicate where there are differences and the magnitude of those differences.

Once the model has been run twice with different weights (or rates), the outputs can be compared if they have different names.

▼Usage Tips

Use this tool to determine if changes made to the weights (or rates) make significant differences in the output.

▼Command line syntax

Sensitivity Comparison <Input_Sensitivity_Layer> <Sensitivity_Layer_to_Compare>
<Output_Sensitivity_Comparison>

Parameters

Expression	Explanation
<Input_Sensitivity_Layer>	One of the two data sets to be compared.
<Sensitivity_Layer_to_Compare>	One of the two data sets to be compared.
<Output_Sensitivity_Comparison>	Name of the output data set.

Command Line Example

▼Scripting syntax

Sensitivity Comparison (Input_Sensitivity_Layer, Sensitivity_Layer_to_Compare, Output_Sensitivity_Comparison)

Parameters

Expression	Explanation
Input Sensitivity Layer (Required)	One of the two data sets to be compared.
Sensitivity Layer to Compare (Required)	One of the two data sets to be compared.
Output Sensitivity Comparison (Required)	Name of the output data set.

APPENDIX G

Table 2
of the
Anchorage Wetlands Management Plan

Wetland Designations, Enforceable and Administrative Policies and Management Strategies

NOTE:

1. Wetland numbers listed for the original 1982 Anchorage Wetlands Management Plan are for reference only. In many cases, 1982 wetland site numbers refer to sites which have been split or merged in the current revision.
2. All sections in *italics* represent Enforceable Policies of this plan.

ANCHORAGE BOWL

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
1	None	1	#1 CATTAIL POND AT PORT (2.63 acres; Public & Private Ownership) (Scores: Hydrology = 100; Habitat = 73; Species Occurrence = 49; Social Function = 24) <i>Because the site provides migratory and limited nesting habitat for several species and performs water quality functions for an area with contaminated groundwater, the site shall be maintained to the maximum extent.</i>	Undesignated	B
1	None	1	#2 CATTAIL POND AT PORT (1 acre; Public & Private Ownership) (Scores: Hydrology = 60; Habitat = 44; Species Occurrence = 45; Social Function = 11) Site just south of Terminal Road classed as "C" wetlands. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent properties. A toxics evaluation shall be done if excavation is proposed, and it shall meet the acceptable standards of the Alaska Department of Environmental Conservation and the Municipal Department of Health and Human Services in order to prevent degradation of water quality in adjacent water bodies and wetlands.</i>	Undesignated	B/C
1	None	1	TRACTS A AND EE (18 acres; Public Ownership) (Scores: Hydrology = 88; Habitat = 125; Species Occurrence = 51; Social Function = 17) Federal U.S. Air Force lands behind the Port which are currently mostly permitted. <i>Any new management strategies shall be consistent with applicable Corps permits.</i>	Undesignated	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
2	58A	1, 2 and 9	SHIP CREEK FLOODPLAIN (above CEA dam) (1.8 acres; Public & Private Ownership) (Scores: Not Assessed) Wetlands important for water quality, flood storage. <i>Development in wetlands shall be subject to Alaska Department of Fish and Game timing stipulations to limit disturbance to anadromous fish movements.</i> Development designs should mirror information outlined in the <u>Ship Creek-Port Land Use Plan</u> . Executive Order (EO) 11990 will be used to protect the Creek on military land	Undesignated Preservation	A
2	58A	1, 2 and 9	SHIP CREEK BEAVER POND (0.75 acres; Public & Private Ownership) (Scores: Hydrology = 118; Habitat = 68; Species Occurrence = 68; Social Function = 24) <i>Flood control and habitat functions shall be preserved by fill avoidance.</i>	Undesignated	A
3	58A	3	SHIP CREEK: NW REEVE/VIKING (3.2 acres; Public Ownership) (Scores: Hydrology = 74; Habitat = 80; Species Occurrence = 63; Social Function = 76) Values for flood control, water quality and habitat. Site is an old slough of Ship Creek. <i>Fill within slough shall be avoided.</i>	Undesignated Preservation	A
4	None	3	NORTH OF RAILROAD TRACKS, INTERSECTION OF REEVE/POST ROAD (4 acres; Public Ownership) (Scores: Hydrology = 111; Habitat = 73; Species Occurrence = 35; Social Function = 25) <i>Because the pond and adjacent wetlands provide habitat for several species and an important filter area for local snow dump, the drainage and pond areas shall be maintained and avoided to the maximum extent. The site's filtering values shall be protected, since the pond drains directly into Ship Creek. Snowmelt should be treated although it is recognized that this may be impractical.</i>	Undesignated	B
5	None	11	MOUNTAIN VIEW DRIVE/GLENN HIGHWAY INTERSECTION (8 acres; Public & Private Ownership) (Scores: Hydrology = 86; Habitat = 47; Species Occurrence = 18; Social Function = 59) Most of area is MOA-HLB land. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works and Alaska Department of Transportation/ Public Facilities to assure that the Glenn Highway and sites to the east shall not be more than minimally adversely impacted.</i>	Undesignated	C
6	None	14	TURPIN PARK (1.8 acres; Public Ownership) (Scores: Hydrology = 70; Habitat = 34; Species Occurrence = 18; Social Function = 60) Municipal park land. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding, maintain both surface and subsurface cross drainage, and prevent drainage of adjacent wetlands.</i>	Undesignated	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
6	56	13	SOUTHWEST AND SOUTHEAST INTERSECTION OF TURPIN/GLENN HIGHWAY (47 acres; Public Ownership) (Scores: Hydrology = 87; Habitat = 57; Species Occurrence = 18; Social Function = 50) Isolated site; minimal hydrology values; no obvious drainageways. (Note: size of site and drainage basin inflated score).	Developable	C
6	57	13	SOUTHEAST INTERSECTION OF 4 TH AVENUE/BONIFACE PARKWAY (2.8 acres; Private Ownership) (Scores: Hydrology = 78; Habitat = 27; Species Occurrence = 16; Social Function = 27) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding, maintain both surface and subsurface cross drainage and prevent drainage of adjacent wetlands. Drainageways shall be avoided. A written plan shall be presented to the Municipal Department of Community Planning and Development to determine if alternatives exist that would allow avoidance of alteration of drainage of the site.</i>	Developable	C
7	57	12	NORTH RUSSIAN JACK PARK (53.4 acres; Public Ownership) (Scores: Hydrology = 102; Habitat = 60; Species Occurrence = 18; Social Function = 75) <i>A hydrologic analysis shall be done and meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding, maintain both surface and subsurface cross drainage and prevent drainage of adjacent wetlands. Park amenities shall be permitted beyond 25 feet of drainageways and/or open water. Relatively low value site; information on hydrology shall precede permitting for identification of drainage problems or retention areas. This site does not have any streams or ponds; the intent is to protect the springs and to maintain onsite drainage.</i>	Preservation	C
8	51	36	BROOKRIDGE SUBDIVISION (10.5 acres; Private Ownership) (Scores: Hydrology = 124; Habitat = 95; Species Occurrence = 75; Social Function = 38) Remaining undeveloped wetlands at Chester Creek classed as "A". <i>Setback from creek shall be maintained as platted (see Permit #B-517). No runoff shall enter into setback area unless treated.</i>	Developable	A
9	51	25	MULDOON: Chester CK/FOOTHILLS SUBDIVISION NEAR TURF CT. (2.25+ acres; Public/Private Ownership) (Scores: Hydrology = 104; Habitat = 89; Species Occurrence = 71; Social Function = 71) Area currently permitted for storm drain detention system. Provides flood retention, water quality, habitat. <i>Unfilled areas shall be retained.</i>	Developable	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
10	51	25 and 36	HIDEAWAY HILLS, TRACT A (33.9 acres; Private Ownership) (Scores: Hydrology = 104; Habitat = 71; Species Occurrence = 60; Social Function = 50) Enhancement potential possible in northerly site. Development could occur in westernmost one-third; <i>hydrology/flood storage connection to Chester Creek and adjacent wetlands shall be retained at the east end by setbacks, avoidance and minimization of fills.</i> Ditches should be filled and area can serve for stormwater retention. Remnant, highly disturbed wetland extending south of the main site provides possible water quality and flood control, but is generally low value and remains "C". <i>Northern portion of this site, at the ditch, shall be retained or replaced with a storm drain system for water quality purposes.</i>	Developable	B/C
10A	53	36	NORTH AND SOUTH OF 36 TH . WILLIWA/PUSSYWILLOW STREET (3.66 acres; Private Ownership) (Scores: Hydrology = 74; Habitat = 48; Species Occurrence = 18; Social Function = 40) Minimal values.	Undesignated	C
11	None	25	SUSITNA SCHOOL POND (0.5 acres; Public Ownership) (Scores: Not Assessed) <i>The pond and wetland shall be retained as a stormwater detention/treatment site unless the site is needed for school expansion, in which case, a new stormwater detention/treatment site must be identified in the area to replace these hydrologic/water quality functions and values. Cleanout and maintenance of the pond shall be allowed only from August 15 to May 1. Such activities shall not be permitted during the spring and summer (i.e., May 1 to August 15) due to the need to protect nesting waterfowl.</i>	Undesignated	C
11	None	25	20 TH /CHANDALAR (0.5 acres; Private Ownership) (Scores: Not Assessed) <i>Developer shall submit a drainage impact analysis to address drainage in relation to neighboring homes.</i>	Undesignated	C
11	50	25	NORTHWEST INTERSECTION OF NORTHERN LIGHTS/MULDOON (two sites) (6 acres; Private Ownership) (Scores: Hydrology = 69; Habitat = 50; Species Occurrence = 17; Social Function = 55) Southern, center section of easterly site above Post Office provides higher habitat values; could be used for enhancement. <i>A written plan shall be submitted to the Municipal Department of Community Planning and Development for review and approval describing efforts to avoid impacts to the habitat values of the southern and central sections of the easterly tract, such as timing windows, additional setbacks, vegetative screening, reduction of fill and onsite enhancement.</i>	Developable	C
12	44	36	MULDOON PARK: NORTHERN LIGHTS BOULEVARD AND MULDOON ROAD (10.6 acres; Public Ownership) (Scores: Hydrology = 69; Habitat = 53; Species Occurrence = 22; Social Function = 50) Isolated site has relatively low values. <i>Drainages shall be maintained to prevent flooding, maintain both surface and subsurface cross drainage and prevent drainage of adjacent wetlands. Park amenities shall only be permitted beyond 85 feet of drainageways and open water.</i>	Preservation	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
13	44	35	SOUTHWEST INTERSECTION OF NORTHERN LIGHTS/PATTERSON (4.75 acres; Private Ownership) (Scores: Hydrology = 105; Habitat = 61; Species Occurrence = 18; Social Function = 47) <i>A hydrologic analysis shall be done and meet the acceptable standards of the Municipal Department of Public Works and the Municipal Department of Community Planning and Development in order to ascertain possible connections to Chester Creek and Baxter Bog and to ensure the maintenance of flows to Chester Creek and Baxter Bog.</i>	Developable	C
14	None	24	<u>CHENEY LAKE</u> (26 acres; Public Ownership) (Scores: Hydrology = 117; Habitat = 108; Species Occurrence = 97; Social Function = 95) Primary importance for habitat values; some water quality values. Provides waterbird nesting and staging habitat and active recreation. <i>A 65-foot minimum setback shall be maintained for park improvements.</i>	Undesignated	A/Open Water
14A	44	24	<u>VUETER SUBDIVISION</u> (7 acres; Private Ownership) (Scores: Hydrology = 71; Habitat = 41; Species Occurrence = 18; Social Function = 74) <i>A hydrologic analysis shall be done and meet the acceptable standards of the Municipal Department of Public Works in order to ascertain possible connections to Chester Creek and to ensure the maintenance of flows to Chester Creek. A 65-foot setback shall apply along all drainageways to Chester Creek. A 100-foot setback shall be maintained adjacent to Chester Creek due to its anadromous fish resources.</i>	Developable	C
15	44	35	<u>BAXTER LAKE</u> (42 acres; Public & Private Ownership) (Scores: Hydrology = 131; Habitat = 122; Species Occurrence = 81; Social Function = 75) <i>Any development shall require a hydrology/drainage survey. Impervious structures shall be required at borders to minimize any dewatering of "A" and "B" wetland areas. Critical hydrological connections exist in "B" wetland areas which shall be avoided and protected..</i>	Developable Conservation Preservation	A/B
16	45	35	<u>NORTH OF REFLECTION LAKE</u> (2.5 acres; Private Ownership) (Scores: Not Assessed) Most of site already permitted/developed. Minimal values, marginal wetland.	Developable	C
17	46	23	<u>NORTHERN LIGHTS/WESLEYAN & RUSSIAN JACK PARK</u> (45 acres approx.; Public & Private Ownership) ("A" wetland scores: Hydrology = 94; Habitat = 84; Species Occurrence = 85; Social Function = 72. "B" wetland scores: Hydrology = 95; Habitat = 70; Species Occurrence = 53, Social Function = 58) Black spruce forested edges/southern rim is classed as "C" wetlands. <i>A 15-foot transitional buffer shall be maintained between fill permitted under General Permits and "B" wetland..</i> Remainder classed as "B" wetlands due to higher habitat, flood control and water quality values. Connection to fork of Chester Creek at the north. Russian Jack Park is "A" wetland area; most of the park area is important to Chester Creek.	Developable Conservation Preservation	A/B/C
17A	46	23	<u>NORTH OF NORTHERN LIGHTS BOULEVARD AND WESLEYAN</u> (3 acres; Private Ownership) (Scores: Hydrology = 91; Habitat = 55; Species Occurrence = 54; Social Function = 60) Partially disturbed area and old gravel pit; minimum values.	Developable	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
18	48	22, 23 and 33	GOOSE LAKE (36 acres; Public Ownership) (Scores: Hydrology = 88; Habitat = 120; Species Occurrence = 122; Social Function = 97) Documented high values for habitat, water quality and recreation. <i>Minor park amenities could be permitted but shall be concentrated at north end only.</i>	Special Study	A
18	48	23, 33 and 34	GOOSE LAKE (22.5 acres; Public Ownership) (Scores: Hydrology = 68; Habitat = 83; Species Occurrence = 15; Social Function = 74) Includes upper Mosquito Lake drainage. Important as feeder area for Mosquito Lake. <i>Fringes could be developed but key drainage sections shall be avoided.</i>	Special Study	B
18	48	22, 23 and 33	SOUTH SIDE OF NORTHERN LIGHTS/BRAGAW, EAST OF GOOSE LAKE (35 acres; Public Ownership) (Scores: Hydrology = 76; Habitat = 75; Species Occurrence = 17; Social Function = 74) All "C" wetland sites surrounding "B" wetlands. Revised wetland boundary. <i>Drainage into B areas shall be avoided, i.e., maintained in present condition. A 15-foot transitional buffer shall be maintained between fill authorized under these GPs and adjacent "B" wetlands. A 25-foot transitional buffer shall be maintained between fill authorized under these GPs and adjacent "A" wetlands to the west. A 65-foot setback shall be maintained as a minimum along all drainageways. No development shall be authorized by the GPs east of the trail where the interface between areas designated B and C is closest to the trail. No fill shall be allowed to be placed under the GPs from April through June within 200 feet of the A-designated wetlands and within 50 feet of B-designated wetlands due to concern for nesting. If no damage would result to private property, treated, local storm water shall be directed into the wetland.</i>	Special Study	C
18A	48	33	MOSQUITO LAKE (14 acres; Public Ownership) (Scores: Hydrology = 85; Habitat = 88; Species Occurrence = 67; Social Function = 76) <i>Lake proper and northerly "A" wetlands shall be preserved without disturbance. Isolated lobes south of lake and bike trail less valuable and could be filled for recreation or road expansions. A 25-foot transitional buffer shall be maintained between fill authorized under these GPs and adjacent "A" wetlands. A 65-foot waterbody setback shall be maintained as a minimum around Mosquito Lake. No fill shall be allowed from April through July in this unit under the GPs to protect nesting near Mosquito Lake.</i>	Special Study	A/C
18B	48	33 and 34	NORTH SIDE PROVIDENCE, ALONG BRAGAW RIGHT-OF-WAY (21 acres; Public Ownership) (Scores: Hydrology = 58; Habitat = 73; Species Occurrence = 12; Social Function = 64) <i>Although identified and justified as developable in Goose Lake Plan; this site provides waterbird habitat in flooded westerly areas which shall be maintained. Site filters runoff from easterly sections to Mosquito Lake complex. Key wetland areas lie in westerly portions and easterly transitional areas could be developed. Runoff drainageways into flooded Mosquito Lake complex shall be maintained.</i>	Special Study	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
18C	47	33	CHESTER CREEK CORRIDOR: NORTHERN LIGHTS TO SOUTH OF PROVIDENCE HOSPITAL (19.2 acres; Public & Private Ownership) (Scores: Hydrology = 95; Habitat = 86; Species Occurrence = 79; Social Function = 82) Direct connection to Chester Creek: provides flood storage, water quality functions and wildlife habitat. <i>Providence Hospital improvements shall be located outside the wetland corridor. Other development shall be avoided except for minor recreation amenities.</i>	Preservation Special Study	A
18D	49	33	WEST SIDE PROVIDENCE, NORTH OF 36 TH , BETWEEN CHESTER CREEK & PROVIDENCE DRIVE, SOUTH OF MALLARD (1.6 acres; Public Ownership) (Scores: Hydrology = 76; Habitat = 50; Species Occurrence = 48; Social Function = 41) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding, maintain both surface and subsurface cross drainage, and prevent drainage of adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology. A 25-foot transitional buffer shall be maintained between fill authorized under the GPs and adjacent "A" wetlands to the west.</i>	Special Study	C
18E	47	33	SOUTH OF CHESTER CREEK CORRIDOR NEAR PROVIDENCE HOSPITAL, NORTH OF EAST 40 TH AVENUE (1.5 acres; Public Ownership) (Scores: Hydrology = 95; Habitat = 79; Species Occurrence = 48; Social Function = 41) <i>Minimum 25-foot buffer shall be required from greenbelt/"A" wetlands. Drainage connections, or low areas adjacent to Chester Creek corridor and "A" wetland shall be maintained.</i>	Special Study	B
19	48	22	NORTHWEST CORNER OF NORTHERN LIGHTS/BRAGAW (6.6 acres; Public Ownership) (Scores: Hydrology = 87; Habitat = 49; Species Occurrence = 24; Social Function = 67) <i>Fragmented; partially developed. A 100' setback shall be maintained adjacent to Chester Creek due to its anadromous fish resources.</i>	Special Study	C
20	49	22	CHESTER CREEK PARK: NORTH OF NORTHERN LIGHTS BOULEVARD (76.2 acres; Public Ownership) (Scores: Hydrology = 134; Habitat = 97; Species Occurrence = 61; Social Function = 80) Portions are within Chester Creek greenbelt. Importance for water quality, recharge, flood storage, open space and habitat. <i>Drainage connections to the creek shall be maintained via avoidance or fill setbacks.</i> Wetlands east of Goose Lake Drive and Tikishla Park are "B" outside of greenbelt. "B" wetland area runs from East 20 th Avenue southward for approximately 225 feet. Development should be limited to northern and eastern portions of site. <i>Drainage channel which crosses Northern Lights and runs across the southern portion of Heritage Land Bank parcel #3-019 shall be retained with a 25-foot buffer.</i> This area, east of Goose Lake Drive, was designated "Conservation" in the Goose Lake Plan (1983.) The site's highest values are within the Chester Creek floodplain. <i>North-south channel in ditch shall include a 65-foot setback.</i>	Preservation	A/B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
21	15	21	CHESTER CREEK GREENBELT/SITKA STREET (85 acres; Public Ownership) (Scores: Hydrology = 142; Habitat = 120; Species Occurrence = 106; Social Function = 89) Importance for water quality and recharge of Chester Creek. <i>Park development shall be placed on wetlands fringes. Run-off from snow dump site east of Sitka Street shall be treated before entering creek/wetlands.</i> The Municipality should ultimately move the North Fork of Chester Creek out of the roadside ditch into the wetlands proper. The Department of Public Works should provide engineering feasibility analyses and cost estimates and incorporate them into future Capital Improvement Programs.	Preservation	A
21A	15	21	ORCA STREET (3 acres; Public Ownership) (Scores: Hydrology = 87; Habitat = 53; Species Occurrence = 18; Social Function = 54) Importance for water quality filtering of Merrill Field area and flood control as part of larger "A" wetland. Municipal ownership. <i>Site shall be undisturbed to the maximum extent.</i>	Developable	B
21B	15	21	SOUTHWEST CORNER OF DEBARR & LAKE OTIS INTERSECTION (4 acres; Private Ownership) (Scores: Not Assessed) Classified as "C" wetland. New channel of the North Fork of Chester Creek has been daylighted on-site. <i>A 65-foot setback shall be maintained along the North Fork of Chester Creek.</i>	Developable	C
22	14	20	D STREET TO A STREET, 17 TH TO 18 TH & ALONG CHESTER CREEK GREENBELT (16 acres; Public & Private Ownership) (Scores: Hydrology = 70; Habitat = 50; Species Occurrence = 18; Social Function = 48) (South side "A" area = Not Assessed) Minimal values. <i>A 25-foot transitional buffer shall be maintained on outside margin of greenbelt. Drainage shall be treated by development (in filled areas) prior to its release into adjacent water bodies and wetlands. A 100-foot setback shall be maintained adjacent to Chester Creek due to its anadromous fish resources. "A" wetland along bike trail below Mulcahy, south of creek, shall be preserved.</i>	Preservation Developable	A/C
23	14	19	WESTCHESTER LAGOON (27 acres; Public Ownership) (Scores: Hydrology = 118; Habitat = 112; Species Occurrence = 147; Social Function = 103) Includes western Chester Creek greenbelt. Documented high habitat, recreation and water quality values. <i>Minor recreation amenities shall be permitted only if no other practicable alternatives exist on-site.</i>	Preservation	A
24	5A	18+	FISH CREEK CORRIDOR (2.6 acres—Public Ownership; 10.10 acres—Private Ownership) (Scores: Hydrology = 89; Habitat = 79; Species Occurrence = 61; Social Function = 48) <i>Previous fill permit areas with protected setbacks shall be treated as "A" wetlands.</i> Road crossings, trails and channel improvements should be permitted if no upland alternatives are available. Important to Fish Creek flood control and water quality.	Developable	A
24A	5A	41	NORTHWOOD PARK (10 acres; Public Ownership) (Scores: Hydrology = 113; Habitat = 111; Species Occurrence = 97; Social Function = 86) "A" wetlands within park lands; significant water quality recharge and flood storage values. <i>All park developments shall be consistent with the locally adopted park plan.</i>	Conservation	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
25	5	29	MILKY WAY/BROADMOOR ESTATES COMPLEX (Private Ownership) a) Main section = 75 acres (Scores: Hydrology = 96; Habitat = 57, Species Occurrence = 47; Social Function = 51), north spur = 17 acres (not assessed). Higher value habitat and wetter areas located at the west side at "A" wetland edge and at the south portion of southern tract. The westerly 300' around Aero Drive extended (~11 acres) and the southerly 1.9 acres in a 10 acre parcel south of W. 40th are classed as "B" wetlands. Identified school site located at east end. Isolated site north of park has been disturbed and drained and is of low value. <i>Cross drainage shall be maintained to "A" wetlands towards the west. A 25-foot transitional buffer shall be maintained between fill authorized under the GPs and adjacent "B" wetlands. No work shall be done within 100-foot of the adjacent "B" wetlands under the GPs between April and July. If no damage would result to private property, treated, local storm water shall be directed into the unfilled wetland. Aero Drive shall be permitted but cross-drainage to "A" wetlands shall be retained and insured in design.</i> Southern end of 10 acre parcel south of W. 40th ("B" area) could be enhanced and linked to isolated "B" site to south for habitat. b) Southern spur = <u>2.8</u> acres (Scores: Hydrology = 75; Habitat = 52; Species Occurrence = 42; Social Function = 44) Designated "B" and owned by church to east. <i>If to be permitted, shall retain northern undisturbed portion to maximum extent, as hydrologic and habitat link to main wetlands.</i> SOUTHWEST CORNER OF NORTHERN LIGHTS/POSTMARK DRIVE (8.5 acres; Public Ownership) (Scores: Hydrology = 75; Habitat = 68; Species Occurrence = 62; Social Function = 55) <i>Drainage shall be maintained throughout site. Most of site is being developed at time of Plan revision.</i>	Developable Undesignated	B/C
26	5	16 and 27	SOUTH SIDE NORTHERN LIGHTS: POSTMARK DRIVE TO EARTHQUAKE PARK (0.7 acres; Public Ownership) (Scores: Hydrology = 57; Habitat = 80; Species Occurrence = 18; Social Function = 39) <i>Drainageway area serves as outflow from main bog. Drainageway from bog shall be retained or replaced. Limited habitat values.</i>	Developable	C
26A	5	17	SOUTH SIDE NORTHERN LIGHTS: POSTMARK DRIVE TO EARTHQUAKE PARK (0.7 acres; Public Ownership) (Scores: Hydrology = 57; Habitat = 80; Species Occurrence = 18; Social Function = 39) <i>Drainageway area serves as outflow from main bog. Drainageway from bog shall be retained or replaced. Limited habitat values.</i>	Undesignated	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
26A and 26B	5	16 17 27 and 28	TURNAGAIN BOG PROPER (435 acres; Public Ownership) (Scores: Hydrology = 149; Habitat = 190; Species Occurrence = 113; Social Function = 65) Fill permit applications should be consistent with the land use designations and the alternatives analysis contained in the Anchorage International Airport (AIA) Master Plan. Priority should be given to airport location-dependent enterprises. Fill permit requirements should fully consider other Municipal plans such as trails, roads, and drainage planning for the airport area. The following apply to "C" sites: <i>A written plan shall be submitted to the Municipal Department of Community Planning and Development for review and approval describing efforts to minimize and avoid impacts to the habitat values to the higher value wetlands at the northern end of the "C" area, such as timing windows, additional setbacks, vegetative screening, reduction of fill, and onsite enhancements.</i> <i>In #26A, a 65-foot transitional buffer shall be maintained between fill authorized in the GPs and adjacent "A" sites. This is to provide an adequate buffer for nesting around the water body in the adjacent "A" wetland. An impervious barrier shall be placed at the margins of any fill authorized by these GPs, to the bottom of the peat layer, or to a minimum of one foot below the bottom of gravel fill, to preclude groundwater outmigration from as adjacent wetland. Only land uses designated in the AIA Master Plan should be considered for coverage under the GPs. A mitigation plan shall be developed in consultation with a Special Mitigation Committee (composed of State and Federal resource agencies and the Municipality) during the environmental analysis, engineering, design, and construction of the project. A report reflecting this consultation and final approval by the Corps shall be submitted with the request for a GP. A 65-foot setback shall be maintained from all waterbodies.</i> The following apply to "A" and "B" sites: AIA strategic development plan will establish appropriate types and levels of compensatory mitigation for airport wetland fills in "A" and "B" sites, and will be developed in conjunction with the resource agencies. Projects that address airport safety issues and neighborhood-airport conflicts (e.g. noise impacts, clear-zone requirements), including minor road, trail, utility lines, taxiway and runway projects, should be permitted with no or reduced mitigation requirements. The other areas of the main Turnagain Bog core, particularly at the northwest, central west, and southeast fringes are transition zones where wetlands grade out into adjacent upland woods, and are of lower value than the main patterned ground core.	Special Study; Developable; Preservation	A/B/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
26C	5	17	EARTHQUAKE PARK (84 acres; Public Ownership—"A" Wetlands; Private Ownership—"C" Wetlands) (Scores: Hydrology = 106; Habitat = 105; Species Occurrence = 64; Social Function = 69) Platted portion at east end contains lower value wetlands—classified as "C" wetlands. Remainder of wetlands contains pools and ponds, mixed habitat; higher values of site. Conveys storm drain system from Northern Lights Boulevard. Public parkland areas remain protected as "A" wetlands. <i>Minor recreation amenities and trails could be placed in "A" wetlands, but shall be at least 50 feet away from waterbodies.</i> Jones Creek corridor east of the main 26C site is "A" wetland; <i>requires wetland delineation prior to permitting.</i>	Preservation	A/C
26C	None	16	COASTAL TRAIL NORTHEAST OF POSTMARK DRIVE/NORTHERN LIGHTS INTERSECTION (1.6 acres; Public Ownership) (Scores: Hydrology = 47; Habitat = 41; Species Occurrence = 15; Social Function = 64) No known wetland function; some drainage values. <i>Any fill projects shall maintain drainage through site.</i>	Undesignated	C
26D	5	27	POSTMARK DRIVE WEST (78 acres; Public Ownership) (Scores: Hydrology = 128; Habitat = 87; Species Occurrence = 67; Social Function = 73) Corps requires mitigation plan approval prior to permit issuance. Significant site due to both migratory and nesting habitat values. Proximity to runways requires off-site mitigation. <i>All fill and excavation work in this wetland shall be conducted and scheduled in a manner to minimize disturbance to migratory birds to the maximum extent.</i>	Developable	A
26E	None	41	LAKE SPENARD (Approximately 4 acres; Public Ownership) (Scores: Not Assessed) <i>Wetlands fringe shall be maintained with adequate setbacks from the lake. Provides important filtering function for the lake's water quality control.</i>	Undesignated	A/Open Water
27	None	26	ALONG BLUFF/COASTAL TRAIL, SOUTH OF POINT WORONZOF (11.7 acres; Public Ownership) (Scores: Hydrology = 71; Habitat = 60; Species Occurrence = 23; Social Function = 33) Limited habitat values. <i>Two primary drainageways shall be maintained. Full wetland delineation required prior to permitting.</i>	Special Study	C
28	1	50	LITTLE CAMPBELL LAKE (16.1 acres; Public Ownership) (Scores: Hydrology = 83; Habitat = 95; Species Occurrence = 89; Social Function = 74) Wetlands important for habitat and open space. <i>Park amenity development shall occur outside wetlands to the maximum extent.</i>	Preservation	A
29	4A	52	SOUTH AIRPARK LAKE (2 acres approx.; Public Ownership) (Scores: Not Assessed) <i>Lake and fringe wetlands shall be preserved. Provides waterbird habitat and water quality functions.</i>	Preservation	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
29A	None	52	NORTHEAST AIR GUARD/RASPBERRY ROAD (0.62 acres; Private Ownership) (Scores: Hydrology = 65; Habitat = 55; Species Occurrence = 18; Social Function = 18) Seasonal pond with possible connection to DeLong Lake; <i>storm drainage and lake connection shall be maintained or adequately handled in development design.</i> Conveys drainage across Raspberry Road.	Undesignated	C
29A	None	52	NORTHWEST AIR GUARD/RASPBERRY ROAD (0.67 acres; Public Ownership) (Scores: Hydrology = 52; Habitat = 47; Species Occurrence = 18; Social Function = 18) Isolated; seasonal flooding which drains east and across Air Guard Road to DeLong Lake drainage. No known species use. <i>Drainage functions to lake shall be maintained or replaced.</i>	Undesignated	C
30	4	40, 41 and 52	DELONG LAKE/MEADOW LAKE (46 acres; Public & Private Ownership) (Scores: Hydrology = 119; Habitat = 122; Species Occurrence = 133; Social Function = 73) This lake system has important waterbird and fish habitat as recognized by the Alaska Department of Fish and Game. <i>Preservation of the north side wetlands on Meadow Lake shall be identified in the Anchorage International Airport Master Plan. Airport expansions shall remain buffered from Meadow Lake and adjacent wetlands. An 85-foot setback in "C" areas shall be maintained around the lake to maintain the habitat and hydrologic values of the southeast corner of DeLong Lake. The easterly 35-foot of Lot 1 Block 2, Alderwood Subdivision shall remain undisturbed. Either trees shall be planted or a fence shall be constructed at the east edge of fill authorized under the GPs (on Lot 1) to visually screen development from adjacent wetlands. The active drainageway in the north side of Lot 1, Block 2 Alderwood Subdivision shall remain undisturbed. Homeowner recreational amenities in "A" areas shall be limited to pile-supported structures. Most of the south side wetlands are common areas or park reserve tracts. Ideally, Lots 35A and B at the lake's east shore should be merged with "A" wetland (currently designated as "C") under fee simple acquisition.</i>	Preservation Developable	A/C
31	6	41	BENTZEN LAKE (6.1 acres; Public Ownership) (Scores: Hydrology = 91; Habitat = 91; Species Occurrence = 73; Social Function = 64) <i>Wetlands within park land shall be preserved; importance for habitat, flood control.</i>	Preservation	A
31A	6	41 and 42	NORTHWEST OF MINNESOTA/INTERNATIONAL: NORTHWOOD/VAN BUREN (three sites) (6 acres; Public and Private Ownership) (Scores: Hydrology = 69; Habitat = 43; Species Occurrence = 22; Social Function = 48) Sites mostly disturbed; northern half has a higher potential for enhancement. Site south of International Airport Road is isolated from rest of Connors Bog and has low values.	Developable/Preservation	C
32	6	42	DELANEY LAKE (3.5 acres; Public Ownership) (Scores: Hydrology = 116; Habitat = 89; Species Occurrence = 46; Social Function = 47) Moderate migratory bird habitat/some nesting. May provide flood attenuation/water quality control for Fish Creek. <i>The lake and, to the maximum extent, most of fringe on the north side of the railroad tracks, shall be preserved.</i>	Developable	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
33	6	42	SOUTHEAST INTERSECTION OF MINNESOTA/INTERNATIONAL (9.7 acres; Public Ownership) (Scores: Hydrology = 114; Habitat = 81; Species Occurrence = 24; Social Function = 48) Provides moderate open water habitat; actual nesting use limited; currently permitted for roadway improvements; remainder of site could be used for storm drainage retention/treatment. <i>Sufficient area shall be retained at west edge for storm drain storage and filtration.</i>	Developable	B
34 and 34B	6	41, 42 and 53	CONNORS-STRAWBERRY BOG (310 acres; Public & Private Ownership) (Scores: Assessed in two parts: Hydrology = 114, 98; Habitat = 138, 131; Species Occurrence = 98, 113; Social Function = 80, 49) “A” wetlands designation for all public wetlands and portions of privately-owned parcels #012-051-75 and 012-053-01. A significant waterbird migratory and nesting habitat complex. The DRAFT Connors-Strawberry Bog Master Plan should serve as the basis for the management and restoration of the Connors-Strawberry Bog System. <i>Municipally-leased airport lands in the northwest corner of the bog shall be managed to retain wetland functions and other values covered in lease terms restrictions. Municipal lands within Connors-Strawberry bog shall be managed for open space, wildlife habitat, and wetlands functions.</i> A DRAFT Connors-Strawberry Bog Master Plan outlines recreation development limited to passive and interpretive uses. <i>Trails in wetlands shall be built on piles to the maximum extent.</i> Required Raspberry and Minnesota road and interchange expansions are recognized as in the best public interest, and should be permitted with minimal encroachment. <i>Measures shall be taken to maintain natural drainage patterns and enhance or restore disturbed areas.</i> Road design should be consistent with Master Plan recommendations for intended discharge of treated road drainage into public lands in Connors Lake recharge areas. <i>Portions of parcels #012-071-14 and 012-051-75 within the Connors Lake recharge zone have significant habitat functions which shall be preserved; recommend fee simple acquisition of these sites.</i>	Preservation	A/Open Water
34A	6	54	EAST OF INTERSTATE CIRCLE (1.92 acres; Private Ownership) (Scores: Hydrology = 48; Habitat = 35; Species Occurrence = 24; Social Function = 33) <i>A formal wetland delineation shall be required with development plans.</i> Site is a low value transitional wetland.	Undesignated	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
34A	6	42 and 54	BLUEBERRY LAKE, INCLUDING AREAS TO THE NORTH AND SOUTH (three sites) (Blueberry Lake: approx. 9.5 acres; Private Ownership; Scores: Hydrology = 99; Habitat = 98; Species Occurrence = 41; Social Function = 32). (Areas North and South of Lake: 33.18 acres; Public and Private Ownership; Scores: Hydrology = 83; Habitat = 53; Species Occurrence = 17; Social Function = 53) Blueberry Lake proper and adjacent 100-foot fringe setback is designated "A". This area was platted with a 65-foot setback which was expanded in the 1982 plan to 100 feet for additional protection. <i>This area is currently under a U.S. Department of Justice/EPA court-imposed judgment and future fills shall require compliance with this federal action.</i> The narrow wetland to the north of Dowling Road extended is mostly filled and remains "C". Wetlands south of Dowling Road right-of-way, and outside the lake "A" zone, are "B". <i>A hydrologic analysis shall be required in future actions to determine the extent of recharge zones to the lake. A 15-foot buffer shall be required at the border of "C" areas with the "B" zone.</i>	Preservation Developable	A/B/C
34C	6	54	SOUTHEAST INTERSECTION OF MINNESOTA/RASPBERRY (20.20 acres; Public Ownership) (Scores: Hydrology = 79; Habitat = 47; Species Occurrence = 18; Social Function = 63) Site developable but has great potential for habitat enhancement/flood storage/mitigation site. <i>A hydrologic analysis shall be done for any fill proposed on the west side, and this shall meet the acceptable standards of the Municipal Department of Public Works in order to ensure that adjacent homes will not be adversely affected by the proposed fill. Any road expansion on the west side shall address drainage impacts on adjacent homes prior to permit.</i>	Developable	C
34D	6	53	IRIS SUBDIVISION (Raspberry Road/Connors Bog) (3.5 acres; Private Ownership) (Scores: Assessed with Site #34) <i>Cluster development and minimal fill shall be used in development designs; fill shall be limited to the roadside and westerly portions of the lot or to higher portions of the site. If permitted: runoff shall be treated before entering bog, landscape screening shall be required between development and bog; any development shall include habitat enhancement in bog. Intent: majority of site should be retained; development to occur in Corps process.</i>	Preservation	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
34E	6	53	NORTHWOOD/RASPBERRY (2.75 acres; Public Ownership) (Scores: Hydrology = 83; Habitat = 59; Species Occurrence = 57; Social Function = 59) High enhancement/mitigation potential. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding, maintain both surface and subsurface cross drainage, and prevent drainage of adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology and prevent flooding of the road and adjacent subdivision. The semi-permanent ponds at the central/south end shall be avoided with a 65-foot setback. An impervious barrier shall be placed at the margins of any fill authorized by the GPs to the bottom of the peat or a minimum of one foot below the bottom of gravel fill to preclude groundwater outmigration from an adjacent wetland. New fill shall be visually buffered from the ponds. If no damage would result to private property, treated local storm water shall be directed into the wetland. No fill shall be allowed under the GPs from April to July to protect nesting habitat. Recommend site remain undeveloped in Heritage Land Bank inventory</i>	Developable	C
34F	6	66 and 67	SOUTH CONNORS BOG: BOTH SIDES OF STRAWBERRY ROAD (48+ acres; Private Ownership) (Scores: Hydrology = 106; Habitat = 95; Species Occurrence = 50; Social Function = 49) First 100 feet from Strawberry Lake to be classed as "A" wetland. High waterbird and recharge values. Additional 200 feet south of "A" wetland and irregular area further west to be classed as "B" wetlands. Remainder outward area classed as "C" wetlands. <i>A 25-foot transitional buffer shall be maintained from "B" wetlands. Storm water shall be treated before entering adjacent wetlands from fill permitted under GP. A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding, maintain surface and subsurface cross drainage, and prevent drainage of adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology and help establish appropriate setbacks from drainages and water bodies. If fill is authorized by GPs, then the two ditches shall be filled in the adjacent undeveloped areas. An impervious barrier shall be placed at the margins of any fill authorized in the GPs to the bottom of the peat layer or a minimum of one foot below the bottom of gravel fill to preclude groundwater outmigration from an adjacent wetlands. If no damage would result to private property, treated local storm water shall be directed to the bog from fill authorized in the GPs. Hydrologic analysis of "B" wetlands shall indicate importance and role of 200-foot setback to hydrology/habitat of Strawberry Lake and important areas to be avoided to the west. Southerly area may serve as spillover/drainage site between Connors/Strawberry Bog and Campbell Creek. Drainage zones shall be identified and protected.</i>	Preservation Developable	A/B/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
34G	6	53	CONNORS BOG/64 TH AVENUE, TRACT A (9.7 acres; Private Ownership) (Scores: Hydrology = 88; Habitat = 75; Species Occurrence = 55; Social Function = 47) Southern portion of lower value where topography grades up and plant communities change. Northerly portion similar to flooded areas in main Connors Bog immediately to north of site. <i>A visual buffer shall be established at the edge of any future fill and remaining unfilled sections to north and east. If no damage to private property, on-site treated storm water shall be directed into the Connors Bog wetlands.</i>	Developable	B
35	6	53	RASPBERRY TO STRAWBERRY/NORTHWOOD TO JEWEL LAKE (Four sites) (15 acres; Private Ownership) (Scores: Hydrology = 87; Habitat = 62; Species Occurrence = 41; Social Function = 35) <i>Shady Birch Terrace Subdivision, a large unplatted area south of 7th Avenue, contains a pond and fringe habitat which shall be retained via a 65-foot setback. This area of Shady Birch is designated "B". Isolated small parcels are "C" wetlands.</i>	Developable	B/C
35A	6	53	73 RD AND JEWEL LAKE (2.4 acres; Private Ownership) (Scores: Hydrology = 87; Habitat = 72; Species Occurrence = 53; Social Function = 40) Portions previously permitted by Corps Individual Permit; setbacks from pond previously required under Individual Permits. High bird use and habitat diversity. Significant run-off and water quality control for Sand Lake. <i>Pond habitat, water quality and drainage values shall be maintained via avoidance.</i>	Developable	B
36	6	66	HATHOR SUBDIVISION (27.12 acres; Public & Private Ownership) (Scores: Hydrology = 103; Habitat = 104; Species Occurrence = 29; Social Function = 42) Main sections nearly developed: south of Kronos Drive to be classed as "C" wetlands. Northernmost half of Block 2 and West 80 th right-of-way to the ponds to be classed as "A" wetlands (Hathor Park); <i>shall be retained due to habitat, water quality, flood control and recreation values. A 25-foot buffer shall be maintained between any fill permitted under the GPs and adjacent "A" wetlands.</i>	Developable	A/C
36A	None	66	BLACKBERRY/DIMOND (2.5 acres; Private Ownership) (Scores: Hydrology = 55; Habitat = 75; Species Occurrence = 18; Social Function = 39) Provides flood storage and water quality functions: connection between Sand Lake wetlands and Campbell Lake. <i>The drainageway shall be maintained between Sand Lake wetlands and Campbell Lake. no fill shall be allowed within 25-foot of the main channel in order to protect the area's flood storage and water quality functions. Silt fences shall be used in association with placement of any fill. Fill slopes shall be vegetated to minimize erosion and reduce turbidity.</i>	Undesignated	C
36B	6	66	BIRCH LAKE (5.7 acres; Public & Private Ownership) (Scores: Hydrology = 80; Habitat = 93; Species Occurrence = 56; Social Function = 74) High hydrology and habitat values. <i>Minor recreation amenities may be considered but shall be built on piles or at the fringes only.</i>	Developable	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
37	2	52	SAND LAKE FRINGE WETLANDS (20.25 acres approx. = Public Ownership; 2.75 acres = Private Ownership) (Scores: Hydrology = 138; Habitat = 170; Species Occurrence = 143, Social Function = 89) Includes fringe wetlands on north side of Sand Lake, park land at east end of lake, and isolated pond and drainage area south of West 72 nd Avenue. <i>Lakeside wetlands shall be avoided via appropriate setbacks throughout. Isolated pond and drainage way below West 72nd Avenue shall be preserved. (Assessment included lake acreage).</i>	Preservation	A
37A	2	65	<u>SAND, SUNDI, JEWEL LAKES</u> (62 acres; Public & Private Ownership) (Scores: Hydrology = 86; Habitat = 92; Species Occurrence = 110; Social Function = 45) “A” wetlands designation for those lakeside wetlands around Sand, Sundi and the unnamed lake immediately east of Sundi Lake, and the wetland complex that connects these waterbodies. Municipally-owned park lands are also classified as “A” wetlands and are connected to the lake setback preservation zone at a common boundary near Sundi Lake. Fringe wetlands exist around Jewel Lake. <i>Prior to any development of the Jewel Lake edge, a wetland delineation and Corps approval shall be required.</i> These wetlands are vital to water quality, water level maintenance and flood storage, as well as the habitat and open space functions of the lakes and canals. <i>The functions shall be maintained and preserved by adherence to the policies below.</i> “A” wetland designated within the lake setbacks could be used in subdivision design as a platted open space area, with development restrictions consistent with a “Preservation” classification. <i>At the time of application, hydrological analysis of the entire site by the applicant/developer shall provide the relationship of the wetlands to water quality, recharge and flood storage to the four area lakes. Field records and surveys show very high habitat and hydrological values. Thus, prior to future permitting, additional information on habitat values shall be provided by an applicant. Analysis of potential fill impacts on habitat and hydrology functions shall be required by the applicant. Fill projects shall not threaten viability of the lakes and adjacent habitat. Development potential exists but the Corps standards shall be met.</i> <u>SOUTH SIDE SAND LAKE: CHARLOTTE CIRCLE, VICTORIA SUBDIVISION</u> (3.83 acres; Private Ownership) (Scores: Hydrology = 48; Habitat = 52; Species Occurrence = 11; Social Function = 48) Realign wetland boundary to the vegetation break (eastward) of the original. <i>A 25-foot transitional buffer shall be maintained from adjacent “A” wetlands. An impervious barrier shall be placed at the margins of new fill authorized by the GPs adjacent to the “A” wetlands to the bottom of the peat layer or a minimum of one foot below the bottom of the gravel fill to preclude groundwater outmigration from the adjacent wetland. If no damage would result to private property, treated local storm water shall be directed into the bog from wetlands to the east.</i>	Preservation	A
37B	2	65		Developable	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
37C	2	65	ST. BENEDICT'S (5.4 acres; Private Ownership) (Scores: Hydrology = 75; Habitat = 59; Species Occurrence = 68; Social Function = 44) Westernmost 150 feet includes key habitat and hydrology areas, with connection to "A" wetland. Ponded in spring; nesting use, significant species present. <i>A 200-foot transitional buffer shall be maintained from the "A" wetlands to protect habitat values of the "A" wetlands and at the west end of this site. New fill shall be visually screened from the setback along the "A" wetlands. If no damage would result to private property, treated, local stormwater shall be directed into the bog. No work shall be done on this site under the GPs between April and July. An impervious barrier shall be placed at the margins of fill authorized in the GPs adjacent to the "A" wetlands to the bottom of the peat layer or a minimum of one foot below the bottom of gravel fill to preclude groundwater outmigration from adjacent wetlands.</i>	Developable	C
37D	2	65	WEST OF JEWEL LAKE ROAD: 84 TH TO 86 TH (8.2 acres; Private Ownership) (Scores: Hydrology = 87; Habitat = 67; Species Occurrence = 35; Social Function = 45) Significant disturbance already. <i>A 200-foot transitional buffer shall be maintained from "A" wetlands to protect the nesting habitat in "A" wetlands. An impervious barrier shall be placed at the margins of any fill authorized in the GPs adjacent to "A" wetlands to the bottom of peat layer or a minimum of one foot below the bottom of gravel fill to preclude groundwater outmigration from adjacent wetlands.</i>	Developable	C
37E	None	52	WEST 72 ND AVENUE (1.75 acres; Public Ownership) (Three sites) (Scores: Hydrology = 49; Habitat = 40; Species Occurrence = 18; Social Function = 47) Three previously Undesignated sites. Northerly and eastern areas are isolated sinkholes = "C" wetland. <i>Southerly site's drainage function shall be retained or replaced. May have hydrologic connection to lake to the south. A hydrological analysis shall be done and shall meet the acceptable standards of the Municipal Public Works Department in order to prevent flooding, maintain both surface and subsurface cross drainage, and prevent drainage from adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology and replace drainage functions.. Additional small wetland pools and depressions are scattered in this parcel and they shall be delineated prior to development. Any additional wet areas are very small and can be covered under the General Permit.</i>	Undesignated	C
38	12	43+	CAMPBELL CREEK GREENBELT (165+ acres = Greenbelt areas; Public Ownership) (Scores: Hydrology = 140; Habitat = 112; Species Occurrence = 102; Social Function = 54) "A" wetlands designation applies to those areas within the greenbelt which are protected under Municipal park ownership and stream protection ordinance. Important to fish habitat, flood control and recreation. <i>Permits for public use trails, additions and changes shall be placed as far from creek as possible and shall avoid wetlands to the maximum extent.</i>	Preservation	A
38	None	68	TAKU LAKE (14.5 acres; Public Ownership) (Scores: Not Assessed) Park amenities allowed but must maintain drainageway at south end of lake; <i>minimum setbacks of 65 feet shall be required from lake shore. Provides flood storage, habitat.</i>	Undesignated	A/Open Water

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
38A	12	44	INTERNATIONAL: CAMPBELL CREEK, EAST AND WEST OF HIGHWAY (11.3 acres; Private Ownership) (Scores assessed in two parts: Hydrology = 86, 63; Habitat = 50, 34; Species Occurrence = 18, 18; Social Function = 45, 46) <i>A 25-foot non-disturbance buffer shall be maintained from "A" wetlands. Run-off from any new development shall be treated before entering the creek.</i>	Developable	C
38B	12	55	OLD SEWARD HIGHWAY/64 TH AVENUE (12.4 acres; Private Ownership) (Scores: Hydrology = 80; Habitat = 63; Species Occurrence = 26; Social Function = 35) Although disturbed, considerable habitat values exist where ponded. Potential for habitat enhancement. <i>Eastern one-third of site and ponds shall be retained and enhanced with 65-foot setbacks.</i> Cluster development could occur on western and southern fringes with buffering from ponds. Ponded sites east of foot trail require Individual Permit.	Developable	C
38B	12	55	NEAR TAKU ELEMENTARY (7.5 acres; Private Ownership) (Scores: Hydrology = 81; Habitat = 66; Species Occurrence = 24; Social Function = 59) Marginal wetlands on east side of creek. <i>A 25-foot buffer shall be maintained from "A" wetland/greenbelt. On-site drainage shall be treated before entering creek.</i>	Developable	C
38C	12	55	ALONG C STREET: DOWLING TO 76 TH AVENUE (14.01 acres; Public & Private Ownership) (Scores: Hydrology = 85; Habitat = 88; Species Occurrence = 28; Social Function = 49) Artificially created ponds: road decreases habitat values; nesting ducks present. Area has drainage problems. <i>A written plan shall be submitted to the Municipal Department of Community Planning and Development describing how proposed fill would minimize impacts to nesting habitat, such as timing windows, additional setbacks, vegetative screening, reduction of fill, and onsite enhancement. A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding, maintain both surface and subsurface cross drainage, and prevent drainage of adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology. In Tract 3B, the seasonal drainage pattern (west to east toward Campbell Creek) shall be maintained via fill avoidance of seasonal surface flow low points. The water body at the south end of tract within the C Street right-of-way, south of Raspberry Road, and a 25-foot setback around the water body shall be treated as an "A" wetland. No work shall be done in this setback under the GPs from April through July. Area has permanent and seasonal ponds. "B" area includes parcel at SE Hart/72d intersection.</i>	Developable	B/C
38D	None	75	EAST SIDE OF CAMPBELL LAKE, AT VICTOR ROAD (1.6 acres; Public & Private Ownership) (Scores: Hydrology = 98; Habitat = 77; Species Occurrence = 78; Social Function = 41) Includes lakeshore wetlands. Good species use, i.e. salmon, and stormwater filtering values; <i>area shall be preserved.</i>	Undesignated	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
39	12A	43 and 55	TINA LAKE (10 acres; Public & Private Ownership) (Scores: Hydrology = 135; Habitat = 93; Species Occurrence = 73; Social Function = 36) Values for water retention/filtering and significant species use. Remaining wetlands have direct connection to lake's hydrology values. Assumed that outer fringes of wetland could be filled. <i>Additional projects shall not occur during waterfowl breeding season (April-July). Fill edges shall include visual landscaped buffer. If Dowling Road is to be developed, any mitigation that may be required shall be off-site.</i>	Developable	A
40	13	43	BUSINESS PARK (Public Ownership—"A" wetland site; & Private Ownership) a) West Side of Business Park Boulevard. (8.38 acres) (Scores: Hydrology = 112; Habitat = 67; Species Occurrence = 94; Social Function = 65) Municipal and Business Park Coalition-owned land classed as "A" wetlands due to high hydrology, habitat values, enhancement/mitigation potentials identified; local snow dump nearby. Small privately owned parcel west of road remains as a "C" wetland. A 25-foot transitional buffer shall be maintained between fill authorized under the GPs and the "A" wetland. No work shall be done on this site under the GPs from April through July. An impervious barrier shall be placed at the margins of any fill authorized by these GPs adjacent to the "A" wetlands to the bottom of the peat layer or a minimum of one foot below the bottom of the gravel fill to preclude groundwater outmigration from an adjacent wetland.	Developable	A/C
40A	13		b) East Side of Business Park Boulevard (approximately 8 acres) (Scores: Hydrology = 94; Habitat = 59; Species Occurrence = 71; Social Function = 49) (Area has a semi-permanent pond) Lower values due to disturbance; recommend Municipal support to the Coalition to acquire Tracts 2, 3, and 4. Enhancement potential, species use. A written plan shall be submitted in the permit process describing how fill will minimize impacts on nesting habitats. This shall include avoidance and/or cluster design.	Developable	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
40B	13	43	SOUTHEAST INTERSECTION OF TUDOR/C STREET (South of EXXON gravel pit pond) (34 acres; Private Ownership) (Scores: Hydrology = 86; Habitat = 50; Species Occurrence = 18; Social Function = 40) Mixed woods. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding, maintain both surface and subsurface cross drainage, and prevent drainage of adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology, particularly with movement of runoff from snow dumps. A 100-foot setback shall be required from the EXXON gravel pit pond. A written plan shall be submitted to the Municipal Department of Community Planning and Development for review and approval describing efforts to avoid and minimize impacts to the tract's habitat values, particularly avoidance of construction in Site 40B during waterfowl nesting and migration peaks. Additional examples of possible measures to avoid and minimize impacts to habitat include additional setbacks, vegetative screening, reduction of fill, and onsite enhancement. No work shall be done on this site under the GPs from April through July.</i>	Developable	C
40B	13	43	SOUTHWEST INTERSECTION OF INTERNATIONAL/C STREET (4 acres; Private Ownership) (Scores: Hydrology = 71; Habitat = 43; Species Occurrence = 18; Social Function = 33) Minimal values; could be used for storm drain treatment.	Developable	C
40B	13	43	SOUTHEAST INTERSECTION OF INTERNATIONAL/C STREET (1.1 acres; Private Ownership) (Scores: Hydrology = 72; Habitat = 42; Species Occurrence = 18; Social Function = 50) Minimal values; could be used for storm drain treatment.	Developable	C
41	13	31	A STREET TO C STREET/36TH TO 40TH (3.4 acres; Public Ownership) (Scores: Hydrology = 68; Habitat = 36; Species Occurrence = 18; Social Function = 46) Fragmented and already partially developed. <i>Development associated with fill authorized under the GPs shall include a means of water quality treatment of stormwater to prevent further degradation of the water quality of Fish Creek; any method proposed shall be approved by the Municipal Public Works Department. Local storm drains lead directly to Fish Creek.</i>	Developable	C
41	13	31	WETLANDS SOUTH OF LOUSSAC LIBRARY (4 acres; Public Ownership) (Scores: Hydrology = 79; Habitat = 63; Species Occurrence = 54; Social Function = 60) Significant disturbance but has moderate waterfowl use/nesting. Pondered areas artificially created and water levels may be supplemented. <i>Development shall avoid all pondered areas in this Tract. A 65' setback shall apply around the permanent pond. Development associated with fill authorized under the GPs shall include a means of water quality treatment of stormwater to prevent further degradation of the water quality of Fish Creek; any method proposed shall be approved by the Municipal Public Works Department. No work shall be done in this site under the GPs from April through July.</i>	Developable	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
41	13	31	A STREET TO FAIRBANKS: 40 th TO TUDOR ROAD (47.5 acres; Private Ownership) (Scores: Hydrology = 99; Habitat = 70; Species Occurrence = 60; Social Function = 40) Portions developed. Could serve as storm drain treatment/collection site. <i>Development shall direct storm water through appropriate treatment prior to entrance into storm drain as it leads directly into Fish Creek.</i>	Developable	C
42	13A	32	NE NEW SEWARD HIGHWAY/TUDOR ROAD (13 acres; Private Ownership) (Scores: Hydrology = 105; Habitat = 85; Species Occurrence = 28; Social Function = 54) Ponds provide high species use and habitat diversity. <i>Ponds or species use and habitat diversity shall be maintained with a minimum 65-foot setback.</i> Outlet ditch could be filled to retain wetland characteristics. Pond area could be tracted out. Performs storm drain filter function. Cluster housing recommended for eastern edge of site. (Unplatted areas zoned Residential.)	Developable	B
43	16	32	LAKE OTIS (9 acres; Public & Private Ownership) (Scores: Hydrology = 109; Habitat = 96; Species Occurrence = 96; Social Function = 80) Wetland fringe important for lake water quality, wildlife habitat and open space values. <i>Park improvements shall be developed at wetland fringes and on pilings whenever practicable. Future modifications to the lake water level control structure shall be reviewed under the Individual Permit review process to preclude any dewatering impacts on wetlands. A minimum 65-foot setback shall be maintained from lake for all new structures. Minor accessory structures may be built on piles.</i>	Preservation	A
44	17	32	MACINNES STREET/TUDOR ROAD, ALONG FISH CREEK (3 acres; Private Ownership) (Scores: Hydrology = 93; Habitat = 98; Species Occurrence = 52; Social Function = 78) Importance for habitat, water quality values. Wetland was retained as on-site mitigation for a previously permitted project. Area extends as narrow, wet drainageway north and east to East 40 th Avenue right-of-way.	Conservation	A
45	17	44	WALDRON DRIVE WETLANDS (13.8 acres; Private Ownership) (Scores: Hydrology = 110; Habitat = 85; Species Occurrence = 61; Social Function = 53) <i>A minimum 85-foot setback shall be maintained from creek (headwaters of Fish Creek) in any future permitting.</i> Southern fringe could be developed without mitigation and appropriate buffering. <i>On-site drainage treatment shall be included in any new development.</i>	Conservation	B
46	18	43	WEST SIDE OLD SEWARD HIGHWAY: EAST 57 th DOWLING (2.5 acres; Private Ownership) (Scores: Hydrology = 63; Habitat = 34; Species Occurrence = 18; Social Function = 46) Minimal values; could be used in storm drain treatment.	Developable	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
46	18	44	55 TH TO DOWLING: SEWARD HIGHWAY TO LAKE OTIS (24 acres; Private Ownership) (Scores: Hydrology = 87; Habitat = 52; Species Occurrence = 42; Social Function = 12) Minimal values; could be used for storm drain treatment. All but west end disturbed and that is isolated by fills and roads and is too small to provide habitat. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Public Works Department in order to determine if a pond is present and a setback is required.</i>	Developable	C
46	18	44	NORTHWEST INTERSECTION OF DOWLING/SEWARD HIGHWAY (17 acres; Private Ownership) (Scores: Hydrology = 106; Habitat = 50; Species Occurrence = 18; Social Function = 39) Minimal values; could be used for storm drain treatment/habitat enhancement.	Developable	C
46	18	56	SOUTHWEST INTERSECTION: DOWLING/SEWARD HIGHWAY (1.45 acres; Private Ownership) (Scores: Hydrology = 85; Habitat = 33; Species Occurrence = 18; Social Function = 46) Minimal values.	Developable	C
47	19	45	TUDOR DOG TRACK AND SITE BEHIND DEPT. OF PUBLIC WORKS (4.8 acres; Public Ownership) (Scores: Not Assessed) <i>A 25-foot transitional buffer shall be maintained between any fill permitted under the GPs and adjacent "A" wetlands.</i>	Developable	C
47	19	45	EAST SIDE OF LAKE OTIS AT 52 ND AVENUE AND NORTH OF DOWLING (21 acres; Private Ownership) (Scores assessed in two parts: Hydrology = 80, 47; Habitat = 64, 30; Species Occurrence = 18, 18; Social Function = 53, 54) Northern section currently drains south to north at Folker Street right-of-way. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, particularly of the developed infrastructure and homes in Simonian Subdivision; to maintain both surface and subsurface cross drainage; and to prevent drainage of adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology, particularly with movement of water to Campbell Creek. A 50-foot transitional buffer shall be maintained between any fill permitted under these GPs along the eastern and southern boundaries of Lot 72 and adjacent "A" wetlands. A 25-foot transitional buffer shall be maintained between any fill permitted under these GPs and adjacent "A" wetlands.</i>	Developable	C
48	41	45+	CAMPBELL TRACT (1400 acres; Public Ownership) (Scores: Hydrology = 126; Habitat = 156; Species Occurrence = 137; Social Function = 52) Portions have a direct link to Campbell Creek hydrologic regime. <i>Basher Lake wetlands shall be preserved because of high hydrology and habitat values. Park development allowed if consistent with Bicentennial Park Master Plan. Any activity shall avoid/minimize disturbance to surface water connections to Campbell Creek, its tributaries and Basher Lake. Trails in wetlands shall be set back at least 100 feet from Campbell Creek/tributaries. Utilities and roads shall be placed in the least sensitive areas.</i>	Preservation	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
48	37	71 to 73	NORTH OF SERVICE HIGH SCHOOL: SOUTHERNMOST CAMPBELL CREEK (269.4 acres; Public Ownership) (Scores: Hydrology = 117; Habitat = 150; Species Occurrence = 48; Social Function = 69) <i>Wetlands within Bicentennial Park shall be preserved with minor park/recreational improvements allowed, but limited to non-fill activities if practicable. Best Management Practices shall be used during construction, but drainage and surface run-off connections shall be preserved.</i>	Preservation	A
48	43	48	SOUTH SIDE OF TUDOR/MULDOON CURVE (68 acres; Public Ownership) (Scores: Hydrology = 113; Habitat = 99; Species Occurrence = 24; Social Function = 59) <i>High habitat/hydrology (drainage/recharge) functions shall be preserved: headwaters of branch of Campbell Creek. Impervious dikes shall be placed at the margins of any fill to the bottom of the peat layer or a minimum of one foot below the new fill to separate and isolate fills from "A" wetland. Utilities, minor park amenities, and Foothills Park, as previously outlined in Utility Corridor and Anchorage Bowl park plans, could be developed without compensatory mitigation in the northerly disturbed areas.</i>	Special Study	A
48	19	58	ALONG ABBOTT LOOP ROAD: NORTHWEST END OF BLM TRACT (80 acres; Public Ownership) (Scores: Hydrology = 84; Habitat = 124; Species Occurrence = 29; Social Function = 59) Headwaters for forks of Little Campbell Creek. Values for water quality, storage, recharge and habitat. Minor utility, park development possible on eastern fringes; a 100-foot setback shall be maintained from waterbodies and all cross-drainage shall be protected.	Special Study	A
48	None	72	EAST OF SERVICE HIGH SCHOOL TO HILLSIDE PARK (2 acres; Public Ownership) (Scores: Hydrology = 78; Habitat = 65; Species Occurrence = 28; Social Function = 56) <i>Drainage to the "A" wetlands shall be maintained.</i>	Undesignated	B
48A	37	71	ZODIAK MANOR SUBDIVISION (3.2 acres; Public Ownership) (Scores: Hydrology = 73; Habitat = 54; Species Occurrence = 17; Social Function = 55) Northern edges at "A" wetland are wetter. A 25-foot setback shall be maintained along the drainage conveyance (southeast to northwest) from Service High School. A 50-foot transitional buffer shall be maintained between fill permitted under the GPs and the "A" wetlands.	Developable	C
48B	None	48	SOUTHEAST MULDOON-TUDOR-KLUTINA DRIVE (3 acres; Private Ownership) (Scores: Hydrology = 61; Habitat = 47; Species Occurrence = 18; Social Function = 44) Isolated site. Minimum values.	Undesignated	C
49 East	42	46	SOUTH SIDE OF TUDOR ROAD: ARMORY TO ADOT/PF (7.5 acres; Public Ownership) (Scores: Hydrology = 66; Habitat = 57; Species Occurrence = 24; Social Function = 42) May serve to filter run-off before entering Campbell Creek; local drainage shall be maintained. Reference Tudor Road PLI Plan for recommended use. A 25-foot buffer shall be maintained from "A" wetland to the south. Small isolated area south of ADOT/PF building is of minimal value and is classed as "C".	Special Study	B/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
49 West	42	46	SOUTH SIDE OF TUDOR ROAD: EAST OF POLICE DEPARTMENT (81 acres; Public Ownership) (Scores: Hydrology = 90; Habitat = 70; Species Occurrence = 24; Social Function = 56) Much of these wetlands designated as good/excellent suitability zones in Tudor Road PLI Plan. <i>Developer shall provide hydrology/habitat evaluations necessary to delineate fill areas/setbacks in "B" area. All fills shall include a 100-foot setback from the north bank of Campbell Creek.</i> "C" wetland west of upland forest, which bisects this area, is isolated, of lower value, and could be filled under a General Permit. Southern portions of this wetland require additional delineation, especially south of East 45 th Avenue and the Animal Control facility.	Special Study	B/C
49A	None	36	TUDOR/MULDOON CURVE (10 acres; Public & Private Ownership) (Scores: Hydrology = 100; Habitat = 94; Species Occurrence = 49; Social Function = 38) <i>High habitat/hydrology functions shall be maintained. Adjacent surrounding transition area could be used for additional stormwater detention. Important for local roadway drainage/water quality.</i>	Undesignated	B
50	62	61	STUCKAGAIN: END OF MIDDEN WAY (2.9 acres; Private Ownership) (Scores: Hydrology = 73; Habitat = 77; Species Occurrence = 22; Social Function = 21) Pond is stream headwaters; good potential fish habitat. <i>Retain pond as open space; drainageway shall be tracted out in platting. A minimum 85-foot setback shall be maintained from pond and creek (where wetlands adjacent).</i>	Developable	B
50	None	61	STUCKAGAIN: MIDDEN WAY (0.4 acres; Private Ownership) (Scores: Hydrology = 64; Habitat = 45; Species Occurrence = 18; Social Function = 29) Unique local site. No known species use. <i>Lot development shall be consistent with large lot zoning to preclude extensive fill coverage. Local drainage patterns shall be maintained around the sinkhole.</i>	Undesignated	C
51	19	57 and 70	STREAMSIDE SITES, 68 TH AVENUE TO 80 TH LAKE OTIS TO ABBOTT LOOP (81.4 acres; Private Ownership) (Scores: Hydrology = 127; Habitat = 107; Species Occurrence = 69; Social Function = 50) <i>A 100-foot setback shall be maintained along Little Campbell Creek to maintain its anadromous fish resources and its flood storage/hydrology functions. Setback areas shall be treated as "A" wetlands. Most areas scored high in the assessments, but the high value sites are concentrated at the stream corridors and these are to be protected via the setbacks.</i>	Developable	C
51A	None	70	CANDYWINE CIRCLE (4.7 acres; Private Ownership) (Scores: Hydrology = 102; Habitat = 88; Species Occurrence = 49; Social Function = 40) Includes north branch, south fork of Little Campbell Creek. Important for flood storage, water quality maintenance; possible fish use. <i>Entire floodplain area shall be included in setback; additional setbacks/requirements to be determined in permit process, with minimum of 100 feet of setback required.</i>	Undesignated	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
52	19	57 and 70	#19A ISOLATED SITES: LAKE OTIS TO ABBOTT LOOP/68 TH TO ABBOTT (45 acres; Private Ownership) (Scores: Hydrology = 118; Habitat = 63; Species Occurrence = 44; Social Function = 40) Mostly isolated, partially disturbed, low value areas. Minimal impacts foreseen if filled. <i>A 100-foot setback shall be maintained along all forks of Little Campbell Creek due to anadromous fish resources. A hydrologic analysis shall be done for work proposed in the northern portion of 72nd and Abbott Loop to prevent flooding of existing and future homes and roadways at the northern end of Travis Street. A field delineation shall be done to determine the northerly extent of the wetland northeast of intersection of 80th and Snow View Drive. If a hydrologic connection to Little Campbell Creek is observed, a 65-foot waterbody setback shall be required along it. Setback areas shall be treated as "A" wetlands.</i>	Developable	C
53	19	57	TIFFANY TERRACE TO BABY BEAR DRIVE/64 TH TO 68 TH (16.2 acres; Private Ownership) (Scores: Hydrology = 87; Habitat = 80; Species Occurrence = 48; Social Function = 43) Pebblebrook Subdivision site was issued General Permit; "A" designation applies to remaining wetland setback after development and the narrow remaining strip along the creek to the west parallel with 66 th Avenue. <i>A 100-foot setback shall be maintained along channels of Little Campbell Creek. A 25-foot transitional buffer shall be maintained between fill authorized under the GPs and adjacent "A" wetlands. (See permit #C-521.) Remaining wetlands to the north are "C" wetlands with a setback as per plats.</i>	Developable	A/C
54	19	56 and 57	64 TH AND DOWLING/LAKE OTIS TO NEWT DRIVE (18.7 acres; Private Ownership) (Scores: Hydrology = 66; Habitat = 58; Species Occurrence = 18; Social Function = 49) Isolated site; possible use for storm drain treatment.	Developable	C
55, 56 and 57	19	56	DOWLING TO LORE ROAD/SEWARD HIGHWAY TO LAKE OTIS (71.41 acres; Private Ownership) (Scores: Hydrology = 117; Habitat = 86; Species Occurrence = 24; Social Function = 54) Sites located south of 68 th Avenue classed as "C" wetlands. Creekside sites at O'Brian Street and on lots to the east classed as "B" wetlands due to direct hydrologic connection to creek with water quality, flood storage values; development could occur on outer fringes. Galatea Estates Subdivision classed as a "C". <i>A 100-foot setback shall be maintained along channels of Little Campbell Creek in order to maintain anadromous fish resources as well as water quality and flood storage functions.</i>	Developable	B/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
58	19	69	LORE ROAD TO 82 ND AVENUE: SEWARD HIGHWAY TO LAKE OTIS (18.88 acres; Private Ownership) (Scores: Hydrology = 76; Habitat = 65; Species Occurrence = 37; Social Function = 21) All sites isolated except for a 13.2 acre site adjacent to the creek. Possible for a sedimentation basin site. <i>A 100-foot setback shall be maintained along Little Campbell Creek due to its anadromous fish resources. All drainage corridors shall be maintained to the creek. The southerly ponded parcel southeast of the soccer field is designated "B" and shall be maintained with a 65-foot setback.</i>	Developable	B/C
58A	None	69	HARTZELL/DIMOND INTERSECTION (1.06 acres; Private Ownership) (Scores: Hydrology = 97; Habitat = 80; Species Occurrence = 38; Social Function = 36) Direct connection to south fork of Little Campbell Creek. Flow from springs/pond within floodplain; flood storage/recharge functions; fish rearing habitat. <i>Portions of site which may be filled shall be determined during project review. Integrity of springs/tributary shall be retained with minimum 85-foot setback.</i>	Undesignated	B
58B	None	69	SOUTHEAST INTERSECTION: DIMOND/SEWARD HIGHWAY (0.88 acres; Private Ownership) (Scores: Hydrology = 70; Habitat = 56; Species Occurrence = 28; Social Function = 44) Site could be used for stormwater detention/treatment—connects via pipe directly to Little Campbell Creek. <i>A 65-foot setback shall be maintained along the northwest corner. Area where fill shall be avoided includes 400 feet running south along Dimond exit ramp and for at least 125 feet to the east, e.g. the low corner. Important for flood control and water quality.</i>	Undesignated	C
58C	None	69	LITTLE CAMPBELL CREEK FLOODPLAIN AT OLD SEWARD HIGHWAY (0.1 acres approx.; Private Ownership) (Scores: Not Assessed) This site includes an old channel, associated floodplain and several remnant pools of Little Campbell Creek. <i>Any new development shall have a minimum 100-foot (in wetlands) setback from the new channel at the east end of the parcel.</i> The setback could be reduced in the permit process along the north border since the creek was moved to a ditch.	Undesignated	B
59	9	68	SOUTH OF DIMOND CENTER MALL/WEST OF OLD SEWARD HIGHWAY (8.5 acres; Private Ownership) (Scores: Hydrology = 79; Habitat = 79; Species Occurrence = 45; Social Function = 5) No connection to ponds to the west; minimal values. Large permanent pond provides bird nesting and migratory habitat functions. <i>A 100-foot setback shall be maintained around the pond. The conveyance of industrial area runoff to Campbell Creek shall be maintained. Remainder of "C" area low value and highly disturbed.</i>	Developable Undesignated	C/Open Water

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
59	9	68	KING STREET: SOUTH OF DIMOND (52 acres; Private Ownership) (Scores: Hydrology = 88; Habitat = 75; Species Occurrence = 30; Social Function = 32) Serves as local industrial area drainage; likely feeds into Campbell Creek, conveying industrial run-off; attenuates flows to Campbell Creek. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Public Works Department to assure retention of a sufficient corridor through low point of wetlands to convey storm flows to Campbell Creek, attenuate flows, and convey industrial runoff. It shall be used in determining the placement of fill that would minimize interference with the local hydrology, particularly with movement of water to Campbell Creek. Cluster development techniques shall be utilized to the maximum extent if developed.</i>	Developable	C
59	9	77	WEST OF OLD SEWARD HIGHWAY, EAST OF RAILROAD, NORTH OF 100 TH AVENUE (11.9 acres; Private Ownership) (Scores: Hydrology = 81; Habitat = 59; Species Occurrence = 17; Social Function = 27) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Public Works Department in order to prevent flooding of adjacent property, maintain both surface and subsurface cross drainage, and prevent drainage of adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology, particularly with movement of water to Campbell Creek.</i>	Developable Undesignated	C
60	9	76	NORTH OF 100 TH WEST OF MINNESOTA (33 acres) (Private Ownership) (Scores: Assessed with Site No. 60 North) Site is marginal, disturbed and drying wetlands. <i>Additional wetland delineation shall be required before permit is issued. No known surface water sites or drainage patterns.</i>	Developable	C
60	9	77	OLD SEWARD HIGHWAY TO C STREET TO NORTH SIDE OF O'MALLEY: SOUTH OF 104 TH AVENUE (16.9 acres; Private Ownership) (Scores: Hydrology = 88; Habitat = 55; Species Occurrence = 42; Social Function = 31) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent road and property, maintain both surface and subsurface cross drainage, and prevent drainage of adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with local hydrology, particularly with movement of water to Campbell Creek.</i>	Developable	C
60 North	9	76 and 77	EAST OF MINNESOTA DRIVE/NORTH OF WEST 100 TH AVENUE TO C STREET RIGHT-OF-WAY (167.1 acres; Public & Private Ownership) (Scores: Hydrology = 131; Habitat = 101; Species Occurrence = 46; Social Function = 39) This area has known drainage problems and moderate to high migratory habitat. The site has enhancement possibilities, i.e. diversify plant community, create open water for more habitat. <i>Hydrology, habitat, and drainage information shall be required in the permit and plating process. Fill avoidance zones may be required. Scores skewed slightly by the size of the site. Site is extremely disturbed, drained and ditched and is typically dry after May.</i>	Developable	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
60 South	9	76 and 77	INSIDE MINNESOTA/O'MALLEY CURVE (162 acres; Public & Private Ownership) (Scores: Hydrology = 106; Habitat = 98; Species Occurrence = 68; Social Function = 47) <i>Groundwater, recharge/flood storage, and habitat information (relating to the Klatt Bog core) shall be required through the permit process. Fill is better suited for the northwest corner (i.e. park amenities.) Area treats snowmelt and run-off from industrial areas. Most habitat occurs at the fringes. Future site developments should require determination of how storm drain systems either fit the South Anchorage Drainage Master Plan or how the Plan will be modified.</i>	Developable	B
60	None	77	<u>NORTH OF 104TH/C STREET</u> (10.6 acres; Private Ownership) (Scores: Hydrology = 95; Habitat = 78; Species Occurrence = 65; Social Function = 13) This area has known drainage problems. Values for filtering, water supply into Klatt Bog system. Moderate bird use concentrated around ponds. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands, in particular with regard to Klatt Bog. It shall be used in determining the placement of fill that would minimize interference with the local hydrology. A written plan shall be submitted to the Municipal Department of Community Development describing how proposed fill would minimize impacts to nesting habitat. Examples of possible measures include timing windows, additional setbacks, vegetative screening, reduction of fill and onsite enhancement. A 100-foot setback shall be maintained around the two existing ponds or new ponds would be constructed near the outflow to maintain the water filtering and storm drainage collection functions of the existing ponds. If no damage would result to private property, treated local, storm water shall be directed to Klatt Bog. No work shall be done on this site under the GPs from April through July. The pond edge shall be delineated by Planning staff or the Corps of Engineers prior to permitting.</i>	Developable	C
60A	9	76	<u>PATRICIA SUBDIVISION</u> (61 acres; Private Ownership) (Scores: Hydrology = 96; Habitat = 107; Species Occurrence = 79; Social Function = 47) Portions of the core area are recognized by the U.S. Fish and Wildlife Service and the Anchorage Coastal Management Program as critical wildlife habitat. Individual ownership of lots compounds the difficulty of future permitting: Municipal and individual lot owners should coordinate a solution before permitting. <i>Olympic Drive shall be permitted as a secondary access (previously a plat requirement). Methods shall be utilized to maintain habitat and hydrology connections and to limit the dewatering of core areas.</i>	Conservation	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
60B	None	77	C STREET/O'MALLEY: TEMPORARY SEDIMENTATION PONDS (5.5 acres; Public Ownership) (Scores: Hydrology = 97; Habitat = 83; Species Occurrence = 66; Social Function = 52) <i>No fill shall be permitted in the ponds under the GPs unless the water quality and flow regulation functions into Klatt Bog ditch are replaced. A written plan shall be submitted to the Municipal Department of Community Planning and Development for review and approval describing efforts to avoid and minimize impacts to the tract's habitat values, such as timing windows, additional setbacks, vegetative screening, reduction of fill, and onsite enhancement. Important for water quality/regulation of flow in Klatt Bog ditch; good species use.</i>	Undesignated	C
60C	None	78	O'MALLEY/SEWARD HIGHWAY SNOW DUMP AREA (2.0 acres approx.; Public Ownership) (Scores: Not Assessed) Site has been created from snow dump and trail and road fills. Moderate habitat and run-off storage. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works. The study shall be used in determining the placement of fill that would minimize interference with the local hydrology. Ponds shall be avoided to the maximum extent. No work shall be done on this site under the GPs from April through July.</i>	Undesignated	C
61	7	74	RESOLUTION POINT SUBDIVISION (10.1 acres; Private Ownership) (Scores: Hydrology = 74; Habitat = 41; Species Occurrence = 26; Social Function = 35) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Public Works Department to enable delineation and protection of drainage corridors to the bluff. The study shall be used in determining the placement of fill that would minimize interference with local hydrology.</i>	Developable	C
62	8	75 and 83	BAYSHORE DRIVE (26.3 acres; Private Ownership) (Scores: Hydrology = 83, Habitat = 87; Species Occurrence = 61; Social Function = 59) Elongated section to the east is "A" wetland and conveys subsurface water from Klatt Bog to Bayshore Lake; westerly section is "A" wetland which is important to the Bayshore Lake floodplain. Southerly "C" area is marginal black spruce forest wetlands and appears unconnected to Bayshore Creek. <i>A 25-foot transitional buffer shall be maintained between fill authorized under the GPs and "A" wetlands. A 25-foot setback from the top of the bluff along Bayshore Creek shall be maintained.</i>	Preservation Conservation Developable	A/C
62	8	75 and 83	BAYSHORE LAKE (9 acres; Public & Private Ownership) (Scores: Hydrology = 91; Habitat = 96; Species Occurrence = 85; Social Function = 75) Documented high habitat, recreation and water quality values. <i>Shall be preserved.</i>	Preservation	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
63	9	75 76 83 and 84	MAIN KLATT BOG CORE (520 acres; Public & Private Ownership) (Scores: Hydrology = 86; Habitat = 123; Species Occurrence = 88; Social Function = 53) a) "A" wetlands: Set aside mitigation area of Concord Hills subdivision, and east edge of Southport PUD behind dike. b) "B" wetlands: Southwest portions, mostly south and west of O'Malley Road. Central sections of the southwest wetlands (Simpson Tracts B and parts of C, especially Bureau of Land Management lands south of O'Malley) are recognized by the U.S. Fish and Wildlife Service as critical wildlife habitats. Cumulative impacts from development and infrastructure have altered the bog's fringes and hydrologic regime. <i>The permit review process shall require information necessary to identify or substantiate the local drainage regime, water table depths and critical wildlife zones.</i> Development may occur selectively on portions of this area following the permit review process. <i>Methods shall be utilized to maintain the critical habitat and hydrological connections important to the critical habitat zones and areawide drainage. Subdivision design and Best Management Practices, including cluster housing, shall be used to avoid dewatering of critical areas and drainageways.</i> Scores for Habitat and Species Occurrence are high and correspond with the U.S. Fish and Wildlife Service's critical habitat identification, although hydrologic changes may have reduced bird usage. The bog may serve as important storm drain collection treatment site as it now conveys storm drain output from industrial sites to the east. Area could also be used for habitat enhancement/mitigation site for other projects in Anchorage. Ideal scenario would call for public ownership of remaining critical and undevelopable sections of the bog's core. c) "C" wetlands: Four isolated and disturbed sites south of Klatt Road (see Maps 83 and 84) and additional sites in the Southport PUD, west of Southport Boulevard. It is recognized that portions of the Southport PUD, specifically the dense black spruce woods north of Ensign Drive and west of Southport Boulevard, and other wooded wetlands between Southport Boulevard and Bayshore Drive south of Ensign Drive, are lower value sites compared to the Klatt Bog core. These areas are designated "C." Since the Southport PUD area is under Corps jurisdiction covered by a long-term Individual 404 Permit, the Corps will continue to administer all wetland fill aspects of the Southport PUD.	Conservation/ Developable	A/B/C
64	11	91 and 92	JOHN'S PARK NORTH/BOTANICAL GARDEN SUBDIVISION (15 acres; Public & Private Ownership) (Scores: Hydrology = 84; Habitat = 77; Species Occurrence = 39; Social Function = 42) A stream corridor setback of 25 feet shall be retained from "A" wetland. Large portions (Tracts B and C) already permitted by Corps.	Undesignated	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
64	10	84 and 85	SOUTH OF KLATT ROAD: WEST OF MARY STREET TO TIMBERLANE DRIVE (8.3 acres; Public & Private Ownership) (Scores: Hydrology = 91; Habitat = 41; Species Occurrence = 18; Social Function = 75) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works to enable delineation and protection of drainage conveyance corridors, especially on the west side. The study shall be used in determining the placement of fill that would minimize interference with the local hydrology. Site could be used for drainage treatment (Tract A). Fill shall minimize any local drainage. The drainage ditch and catch basin should be cleaned regularly to avoid local flooding problems with adjacent homes.</i>	Developable	C
64	11	92	SOUTHEAST INTERSECTION OF JOHNS ROAD AND HUFFMAN ROAD (2.7 acres; Private Ownership) (Scores: Hydrology = 66; Habitat = 35; Species Occurrence = 18; Social Function = 59) Minimal values.	Developable	C
65	11	92	JOHN'S PARK/FURROW CREEK CORRIDOR (8 acres; Public Ownership) (Scores: Not Assessed) <i>Shall be completely preserved. Trail crossings of creek are permissible but must follow 404 process.</i>	Preservation	A
66	26	86	MOOSE MEADOWS (Huffman/Seward Highway) (70 acres; Public & Private Ownership) (Scores: Hydrology = 112; Habitat = 110; Species Occurrence = 65; Social Function = 57) Scores equivalent to those of "A" wetland values but functions focused in central sections . Development possible on fringes with central portion retained for water quality/flood control. <i>Water levels and headwaters of the north fork of Furrow Creek functions shall be maintained. Cluster development suitable at south end. Landscaped screening shall be required between development and central area. Central portions may be enhanced. Could be used as collection basin for Lake Otis storm drain system.</i>	Conservation	B
67	22	78	NORTH OF O'MALLEY ALONG INDEPENDENCE DRIVE (10.7 acres; Private Ownership) (Scores: Hydrology = 90; Habitat = 70; Species Occurrence = 50; Social Function = 37) Conveys minor tributary of Furrow Creek; drainage and high groundwater table problems. West side of Independence Drive may remain as "C" wetland; <i>creekside sites and drainage functions shall be retained via a 65-foot setback from the tributary of Furrow Creek. A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain both surface and subsurface cross drainage, and prevent drainage of adjacent wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology, particularly with movement of water to Furrow Creek. Although scores were moderately high, the site is highly disturbed . Key stream area is located and protected in site #67A.</i>	Developable	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
67	22	78	INDEPENDENCE PARK: VANGUARD DRIVE AND SENTRY DRIVE (11.5 acres; Private Ownership) (Scores: Hydrology = 73; Habitat = 58; Species Occurrence = 36; Social Function = 55) Vanguard Drive conveys general drainage which eventually reaches Little Campbell Creek. <i>Drainage functions shall be retained.</i>	Developable	C
67A	None	78	CREEK: LAKE OTIS TO O'MALLEY (1.9 acres; Private Ownership) (Scores: Hydrology = 68; Habitat = 68; Species Occurrence = 18; Social Function = 42) 65-foot minimum setback precludes lower designation. <i>Shall be platted as undisturbed stream corridor.</i> Importance for conveyance of original fork of Furrow Creek, flood control and water quality. <i>Since flows are only occasionally confined in a defined channel, the entire site shall be retained to the maximum extent.</i>	Undesignated	A
68	21	70	84 TH TO ABBOTT/SPRUCE STREET RIGHT-OF-WAY (42.1 acres; Private Ownership) (Scores: Merged with Sites #51 and #52) <i>A 100-foot setback shall be maintained along the channels of Little Campbell Creek to maintain its anadromous fish resources as well as flood storage and hydrologic functions. A 65-foot setback shall be maintained from the small tributary in the wetland at Lake Otis and Abbott. A written plan shall be submitted to the Municipal Department of Community Planning and Development for review and approval describing efforts to avoid and minimize impacts to the tract's habitat values, such as timing windows, additional setbacks, vegetative screening, reduction of fill and onsite enhancement. No change shall be allowed in the bottom or invert elevation of the culvert under Abbott Road in the westerly parcel or other modification of this drainage which would increase drainage flow rate or volume: this is to prevent lowering of the water table in wetland # 69. Setbacks shall treat as an "A" wetlands area. Acquisition and enhancement possible. Scores merged with Sites #51 and #52.</i>	Developable	C
69	21	79	RUTH ARCAND PARK, SOUTHEAST OF LAKE OTIS/ABBOTT (184.1 acres; Public Ownership) (Scores: Hydrology = 146; Habitat = 145; Species Occurrence = 54; Social Function = 80) Municipal park lands: manage under adopted park plans. Conveys forks of Little Campbell Creek and Furrow Creek. Limited active recreation fill construction permitted in peripheral wetlands as outlined in the park plan. Sedimentation basins are allowed as part of water quality control.	Preservation	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
70	21	80	BIRCH/104th (51 acres; Private Ownership) (Scores: Hydrology = 102; Habitat = 99; Species Occurrence = 65; Social Function = 44) a) East of Springhill Drive. North of E 90th; Classified as "B" wetlands due to unplatted area and headwaters functions. Headwaters of fork of Little Campbell Creek; <i>if permitted, shall retain minimum 85 foot setback</i>. South of E 90th; Also classed as "B" wetlands. <i>Hydrology connection to "B" wetland areas to north shall be retained.</i> b) West of Springhill Drive. Classed as "C" wetland; <i>A 100-foot setback shall be maintained along Little Campbell Creek to maintain its andromous fish resources as well as its flood storage functions. Fill shall be limited to the minimum necessary for a single-lane access driveway, utilities, accessory structure, and house pad. Fill for yards is not authorized in this unit under the GPs.</i> c) HLB Parcels (Lots 89, 90, 91 and 97) adjacent to creek, just east of Abbott Loop are "A"; as required in Furrow Creek 2 mitigation terms. Trails are permitted here.	Developable	A/B/C
70	21	80	SOUTH FORK, LITTLE CAMPBELL CREEK (3.3 acres; Private Ownership) (Scores: Hydrology = 84; Habitat = 68; Species Occurrence = 44; Social Function = 34) 100-foot minimum setback precludes lower designation. Importance for conveyance, water quality, flood control, fish habitat. <i>Stream corridor has pockets of wetlands which shall remain undisturbed (using 100-foot setbacks or avoidance)</i>. Assumed would not be filled for residential development. Utility corridors, driveways should be permitted if no practical alternatives exist.	Undesignated	A
71	None	81	CRAIG CREEK CT/BIRCH (9.1 acres; Private Ownership) (Scores: Hydrology = 91; Habitat = 83; Species Occurrence = 50; Social Function = 47) Importance for flood storage, water quality, recharge. Unique local habitat. <i>Development possible on fringes but shall preserve integrity and functions of the site. Hydrology and stream information shall be required in permit process.</i> Stream may be seasonal.	Undesignated	B
71A	None	82	EAST OF HILLSIDE DRIVE: NORTH END OF HAMPTON DRIVE AND EAST OF SCHUSS DRIVE (1.5 acres; Private Ownership) (Scores: Not Assessed) Two sites. <i>Additional information required on hydrology and drainage functions before permitting. Fill shall avoid permanent ponds and emergent vegetation low points where seasonal pools develop.</i>	Undesignated	B/Open Water
72	None	89	LAKE-O-THE-HILLS (7.5 acres; Private Ownership) (Scores: Hydrology = 99; Habitat = 98; Species Occurrence = 44; Social Function = 51) Associated wetlands along the lake fringe. <i>Site shall be retained via 65-foot non-disturbance setback for wetland fringes.</i>	Undesignated	A/Open Water

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
72A	None	89	<u>115TH AVENUE/HILLSIDE DRIVE</u> (6.4 acres; Private Ownership) (Scores: Hydrology = 93; Habitat = 87; Species Occurrence = 24; Social Function = 32) Site has known drainage problems. Serves for recharge, flood storage of Little Campbell Creek. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage of Little Campbell Creek, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill that would minimize interference with local hydrology. A 100-foot setback shall be maintained along Little Campbell Creek to maintain its anadromous fish resources. A 65-foot setback shall be maintained from drainageways and seeps.</i>	Undesignated	C
72A	None	89	<u>WEST OF HILLSIDE DRIVE, ALONG CREEK</u> (14.13 acres; Private Ownership) (Scores: Hydrology = 106; Habitat = 95; Species Occurrence = 28; Social Function = 50) Values for flood storage, recharge, water quality and fish habitat. <i>A 100-foot setback from Little Campbell Creek and an 85-foot setback from local springs shall be maintained to preserve fish habitat, flood storage, recharge, and water quality functions. Additional delineation required before permitting.</i>	Undesignated	C
72B	None	90	<u>115TH AVENUE/COBRA AVENUE</u> (11 acres; Private Ownership) (Scores: Hydrology = 81; Habitat = 63; Species Occurrence = 14; Social Function = 27) Headwaters for Craig Creek—poorly defined channel. <i>An 85-foot setback shall be maintained from Craig Creek unless a hydrologic analysis indicates that a reduced setback in Sly Fox Subdivision, Lot 2, would not adversely affect Craig Creek. Fill shall be limited to the minimum necessary for a single-lane access driveway, utilities, house pad, and accessory structure. Fill for yards is not authorized in this unit in the GPs. Additional wetland delineation shall be required before permitting in Boulder Springs Subdivision between Vosikof Place and Boulder Circle. Septic systems shall be located as far from creek as possible.</i>	Undesignated	C
72B	None	90	<u>SOUTH FORK, LITTLE CAMPBELL CREEK</u> (18.3 acres; Private Ownership) (Scores: Hydrology = 85; Habitat = 81; Species Occurrence = 34; Social Function = 25) <i>A 100-foot setback shall be maintained along Little Campbell Creek to maintain its anadromous fish resources. Fill shall be limited to the minimum necessary for a single-lane access driveway, utilities, house pad, and accessory structure. Fill for yards is not authorized in this unit in the GPs.</i>	Undesignated	C
72C	34	89	<u>NORTHEAST OF LAKE-O-THE HILLS</u> (Craig Creek) (3 acres; Private Ownership) (Scores: Site scored with Site #72F) <i>A 100-foot setback shall be maintained from Craig Creek to maintain flood storage/water quality functions and values. Fill shall be limited to the minimum necessary for a single-lane access driveway, utilities, house pad, and accessory structure. Fill for yards is not authorized in this unit in the GPs.</i>	Developable	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
72D	34	90	SOUTH OF HIDEAWAY LAKE (7.2 acres; Private Ownership) (Scores: Hydrology = 88; Habitat = 98; Species Occurrence = 44; Social Function = 40) Contains springs/channels to Hideaway Lake; Craig Creek headwaters area; ponds have flood storage capacity values. Site serves as a drainage basin and flood storage area. <i>Detailed drainage analyses shall be required before permitting. Common drainage connections to lake and springs shall be retained via avoidance.</i>	Developable	B
72E	34	82 and 90	HIDEAWAY LAKE (7.8 acres; Private Ownership) (Scores: Hydrology = 83; Habitat = 86; Species Occurrence = 43; Social Function = 40) <i>Wetlands adjacent to lake and feeder creek shall be preserved.</i>	Developable	A/Open Water
72F	32	88 and 89	FORSYTHE PARK AREA (25 acres; Public & Private Ownership) (Scores: Hydrology = 94; Habitat = 92; Species Occurrence = 33; Social Function = 37) <i>A 100-foot setback shall be maintained along Little Campbell Creek to maintain its anadromous fish resources. Fill shall be limited to the minimum necessary for a single-lane access driveway, utilities, and pads for a house and accessory structure. Fill for yards is not authorized in this unit under the GPs. The narrow strip along Little Campbell Creek upstream of the park is designated "A". Homes shall be placed as far from setback as practicable.</i>	Mixed Developable	A/C
73	31	89 and 96	DOWNEY FINCH TO DEARMOUN ROAD (49.4 acres; Private Ownership) (Scores: Hydrology = 98; Habitat = 111; Species Occurrence = 18; Social Function = 47) No wetlands north of Downey Finch; small sites north of Huffman right-of-way classed "C" wetlands. Larger site to the south to be classed as "B" wetlands, due to high groundwater, ponds and poor drainage. Development possible on southern fringes. <i>Fill shall be limited to the minimum necessary for a single-lane access driveway, utilities, accessory structure, and house pad. Fill for yards is not authorized in this unit in the GPs. A 65-foot minimum setback shall be maintained around the pond. Small creek and wetland at Trappers Trail Road and Birch Road shall be retained as "A"—requires better delineation and may extend south of Trappers Trail Road.</i>	Developable/Undesignated	A/B/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
74	24	87	CANGE STREET ALONG CLEO RIGHT-OF-WAY (10.6 acres; Private Ownership) (Scores: Hydrology = 70; Habitat = 68; Species Occurrence = 18; Social Function = 42) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage of the north fork of Furrow Creek, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology and maintain an adequate drainage corridor. The topographic drainage (i.e., the low point) shall be retained in its undisturbed state without a setback. A 65-foot setback shall be retained along the creek. The creek shall be retained in an open channel. A limited pre-discharge notification procedure shall be instituted by the Corps. The Corps will FAX copies of the application and of the hydrologic analysis to EPA, USFWS, NMFS, ADFG, ADGC, and ADEC after being provided these by the Municipality. Any concerns specifically related to the hydrologic analysis shall be raised within five working days of the FAX and conditions proposed to resolve concerns within 15 calendar days of the FAX. The Corps will determine if these conditions are appropriate for inclusion on the GP authorization.</i>	Developable	C
75	23	87	BOTH SIDES OF LAKE OTIS, NORTH OF ALDERWOOD LOOP (18.23 acres; Private Ownership) (Scores: Hydrology = 73; Habitat = 62; Species Occurrence = 18; Social Function = 43) <i>The drainageway function at north end of site across Lake Otis shall be maintained.</i>	Developable	C
75	25	86	NORTH SIDE OF HUFFMAN ROAD: GREGORY ROAD TO ALDERWOOD LOOP (17.52 acres; Private Ownership) (Scores: Hydrology = 82; Habitat = 80; Species Occurrence = 28; Social Function = 38) <i>A 65-foot setback from the creek shall be maintained in the northwest corner of the tract. A 65-foot setback shall be maintained around the spring. A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage of the north fork of Furrow Creek, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology and maintain an adequate drainage corridor.</i>	Developable	C
76	26	93	TANAGA TERRACE AND HUFFMAN HILLS SUBDIVISIONS (16.8 acres; Private Ownership) (Scores: Hydrology = 110; Habitat = 86; Species Occurrence = 64; Social Function = 43) Currently Corps permitted. Site contains main fork and north fork of Furrow Creek; high hydrology values. <i>Eastern one-third of Tanaga Terrace has key habitat and flood storage zone and shall be retained as per current permit and plat. Setback shall be designated "A" as per permit.</i> Tract 1 of Huffman Hills North Addition #2 is preserved as per conditions of 404 permit.	Conservation Developable	A/B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
77	25	94	SOUTHEAST MERGANSER TO LAKE OTIS (4.2 acres; Private Ownership) (Scores: Hydrology = 58; Habitat = 39; Species Occurrence = 18; Social Function = 41) Minimal values.	Developable	C
78	None	100	ELMORE CREEK, WEST OF ELMORE DRIVE (2.2 acres; Private Ownership) (Scores: Hydrology = 93; Habitat = 65; Species Occurrence = 48; Social Function = 28) Southern portion along creek classed as "A" wetlands. Northern spur without creek classed as "C" wetlands. <i>A 25-foot transitional buffer shall be maintained between fill permitted under the GPs and the adjacent "A" wetland. Fill shall be limited to the minimum necessary for utilities, an accessory structure, a single-lane access driveway and house pad. Fill for yards is not authorized in this unit in the GPs.</i>	Undesignated	A/C
78	27	101	ELMORE STREET TO MANYTELL AVENUE (Timberlux Subdivision) (10.8 acres; Private Ownership) (Scores: Hydrology = 107; Habitat = 106; Species Occurrence = 48; Social Function = 35) Elmore Creek flows through site providing open water habitat, hydrology values. <i>Any drainage areas connected by culverts to the "B" wetlands located north of Manytell Avenue shall remain undisturbed. Fill shall be limited to the minimum necessary for utilities, an accessory structure, a single-lane access driveway and house pad. Fill for yards is not authorized in this unit under the GPs. Fill shall avoid topographic low points. A 65-foot setback shall be maintained around the pond.</i>	Developable	B/C
79	29	101	PARK HILLS TO EVERGREEN STREET (6.8 acres; Private Ownership) (Scores: Hydrology = 62; Habitat = 43; Species Occurrence = 18; Social Function = 39) Provides local area storm water retention and serves as headwaters of Gold Creek. <i>Future development shall include fill avoidance to retain storm water functions. Creek corridor and drainage areas shall be delineated and avoided via 65-foot setbacks.</i>	Developable	B
79A	None	101	EAST OF BUFFALO STREET, SOUTH OF 104 TH AVENUE (4.75 acres; Private Ownership) (Scores: Hydrology = 57; Habitat = 34; Species Occurrence = 18; Social Function = 29) Isolated site with minimum values. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage of the Little Rabbit Creek, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill that would minimize interference with the local hydrology.</i>	Undesignated	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
80	30	102	NORTH OF RABBIT CREEK ROAD/ANDOVER (10 acres; Private Ownership) (Scores: Hydrology = 87; Habitat = 79; Species Occurrence = 18; Social Function = 40) Partial headwaters for Elmore Creek; moderate habitat diversity, flood control, water quality values. Lots, as platted, could avoid fill in wetlands by placing structures next to road. <i>A 65-foot setback shall be maintained along the creek channel and ponds. Fill shall not be placed in the pond and drainage outlet at the northwest corner of the unsubdivided area north of Fernwood Avenue extended. Fill shall be limited to the minimum necessary for a single-lane access driveway, utilities, and pads for a house and an accessory structure. Fill for yards is not authorized in this unit under the GPs.</i> This area is used by moose as a calving area and is also a high use corridor for large animal movements.	Developable	C
80	30	102	PICKETT STREET/142 ND AVENUE (9.6 acres; Private Ownership) (Scores: Hydrology = 66; Habitat = 79; Species Occurrence = 18; Social Function = 35) <i>Pond and adjacent wetlands shall be retained as open space in future subdivision plans. (Note headwaters of Gold Creek). "A" wetland designation conforms with open space reserve and drainage easements in Equestrian Heights Subdivision. Future fill in Kijik Subdivision shall avoid wetlands to the maximum extent and, if required, shall be limited to single lane access and primary structures.</i>	Developable	A/Open Water
81	60	102 and 103	SECTION 36 (118.30 acres; Public Ownership) (Scores: Hydrology = 132; Habitat = 132; Species Occurrence = 31; Social Function = 62) <i>Development shall be concentrated at upland edges wherever practicable and as per Section 36 Land Use Plan. Wetlands shall be preserved for flood control and water quality. Headwaters of Rabbit Creek.</i>	Preservation	A
81	60	102 and 103	CLARK'S ROAD TO BEAR VALLEY, LITTLE RABBIT CREEK (5.07 acres; Public Ownership) (Scores: Hydrology = 79; Habitat = 67; Species Occurrence = 48; Social Function = 52) <i>Within the floodplain; provides for flood storage, water quality, some habitat values. Site is within Section 36 and shall be preserved.</i>	Undesignated	A
82	60	102	BEAR VALLEY SCHOOL—NORTH (27.5 acres; Public Ownership) (Scores: Hydrology = 80; Habitat = 89; Species Occurrence = 18; Social Function = 55) On Municipal land; water present due to back-up from fill. North of 149 th Avenue to be classed as "B" wetland to protect pond habitat and flows to the northwest. South of 149 th Avenue to be classed as "C" wetland. <i>A 25-foot transitional buffer shall be maintained between fill authorized by the GPs and both "A" and "B" wetlands. In addition, a visual buffer of trees or a fence shall be placed at the edge of the fill authorized under the GPs to reduce the impacts to wildlife use in adjacent wetlands. A 25-foot water body setback shall be maintained along any drainage corridor and channels. Fill shall be limited to the minimum necessary for utilities, a single-lane access driveway, an accessory structure, and house pad. Fill for yards is not authorized in this unit under the GPs. Drainage flows in channel across Clarks Road to Rabbit Creek.</i>	Developable	B/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
83	60	108	BEAR VALLEY: CARL/JAMIE STREETS (70.12 acres; Private Ownership) (Scores: Hydrology = 109; Habitat = 105; Species Occurrence = 28; Social Function = 50) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage of the Little Rabbit Creek, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirement for 100-foot setbacks along drainageways that would minimize interference with the local hydrology. A 100-foot setback shall be maintained along all identified creeks to protect anadromous fish resources. Fill shall be limited to the minimum necessary for utilities, a single-lane access driveway and house and accessory structure pads. Fill for yards is not authorized in this unit under the GPs. A written plan shall be submitted to the Municipal Department of Community Planning and Development for review and approval describing efforts to avoid and minimize impacts to the tract's habitat values for large mammals, especially bear. Linear fills crossing this area shall be minimized or confined to avoid disrupting migratory movement. Examples include timing windows, additional setbacks, vegetative screening, reduction of fill, and onsite enhancement.</i> Because of past development including ditches, road, driveway and house fills, utility lines, etc., the local hydrology in Bear Valley, especially between Jamie Street, Diane Drive, and Nickleen Street, may have changed to the point that sites previously identified as wetlands may no longer be wet. In addition, it should be understood that the wetlands mapping for the Bear Valley area may be generalized and additional delineations may be necessary to clarify actual wetland boundaries.	Developable	C
84	61	102 through 108	VANTAGE POINTE SUBDIVISION (36.06 acres; Private Ownership) (Scores: Hydrology = 80; Habitat = 112; Species Occurrence = 54; Social Function = 40) <i>Future fill projects shall adhere to EPA action on previous violation. A 100-foot setback shall be maintained from stream channels and waterbodies to retain water quality, flood control values of pond and creeks during permit process. Area is source for drinking water downstream. A hydrologic and drainage impacts study shall be submitted prior to permitting.</i> Partial headwaters of Little Rabbit Creek and contains two small tributaries.	Developable	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
84	60	108	BEAR VALLEY (2 sites) (28.7 acres; Private Ownership) (Scores: Hydrology = 96; Habitat = 77; Species Occurrence = 28; Social Function = 50) <i>A comprehensive hydrologic analysis of surface flows shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property; maintain groundwater recharge and flood storage of the Little Rabbit Creek, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways that would minimize interference with the local hydrology. Fill shall be limited to the minimum necessary for utilities, a single-lane access driveway and a house and accessory structure pads. Fill for yards is not authorized in this unit under the GPs. A minimum setback of 100 feet shall be maintained from any creek or drainageways identified in the hydrologic analysis. Southerly site appears isolated, without inflows or outflows.</i>	Developable	C
85	28	106	^{164TH} STONERIDGE (12.5 acres; Private Ownership) (Scores: Hydrology = 113; Habitat = 86; Species Occurrence = 70; Social Function = 45) <i>An 85-foot setback shall be maintained from creek for flood control, water quality. This site requires an accurate wetland boundary determination. Large lot zoning allows for adequate setbacks and avoidance of flood control areas. A full watershed analysis of Little Survival Creek should be developed and should include identification of all feeder springs and drainageways, and the main channel to its source. Minimum setbacks from any permanent channel shall be 85 feet and 25 feet from ephemeral drainageways.</i>	Developable	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
85	28	106	RICKY ROAD TO 164TH AVENUE—OFF GOLDENVIEW DRIVE (58.7 acres; Private Ownership) (Scores: Hydrology = 114; Habitat = 95; Species Occurrence = 30; Social Function = 46) Site with creek in northern half towards Ricky Road (tributary of Little Rabbit Creek) conveys surface run-off from east and south; shall be classed as "B" wetlands. Southern site shall be classed as "C" wetlands (162nd to 164th Avenues). A hydrologic analysis of surface flows shall be done for any projects in either wetland area, and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage of the Little Rabbit and Little Survival Creeks, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways that would allow maintenance of existing surface drainage for southern site (162nd to 164th Avenues) and whether there is a connection to Little Rabbit Creek in the area west of St. James Street right-of-way. A 65-foot setback shall be required from all drainages identified in the hydrologic analysis. A limited pre-discharge notification procedure shall be instituted by the Corps. The Corps will FAX copies of the application and of the hydrologic analysis to EPA, USFWS, NMFS, ADFG, ADGC, and ADEC after being provided these by the Municipality. Any concerns specifically related to the hydrologic analysis shall be raised within five working days of the FAX and conditions proposed to resolve concerns within 15 calendar days of the FAX. The Corps will determine if these conditions are appropriate for inclusion on the GP authorization. Fill shall be limited to the minimum necessary for utilities, a single-lane access driveway and house and accessory structure pads. Fill for yards is not authorized in this unit under the GPs.	Developable	B/C
85A	None	106	VIRGO AVENUE (6.07 acres; Private Ownership) (Scores: Hydrology = 77; Habitat = 48; Species Occurrence = 18; Social Function = 33) A hydrologic analysis of surface flows shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways and the ephemeral pond at the southern end of the tract that would allow maintenance of existing surface drainage. Additional wetlands and ephemeral drainageways may be located in low lying areas of parcels south of Virgo Avenue and above the bluff east of the Old Seward Highway. Additional field delineation and hydrologic information shall be required prior to any future plat or development activities, particularly in HLB parcels 2-127 through 2-136.	Undesignated	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
86	None	105 and 110	POTTER MARSH (425.56+ acres; Public & Private Ownership) (Scores: Not Assessed) <i>These critical habitat wetlands shall be preserved under the refuge management jurisdiction of the Alaska Department of Fish and Game. Any use proposals shall be presented to that Department and shall be consistent with refuge goals and policies. Portions of these wetlands are within the State right-of-way for Seward Highway. It is recognized that future highway expansions may require fill activities. These are permissible, given the public need and associated benefits. If necessary, mitigation requirements shall be determined at the time of permitting.</i>	Preservation	A
86A	None	110	POTTER CREEK MOUTH (3.5 acres approx.; Public Ownership) (Scores: Not Assessed) Area includes partly intertidal wetlands at mouth of Potter Creek, east of the Seward Highway, but included here because it is primarily freshwater influenced. <i>High habitat and water quality site shall be preserved in its entirety. Minor Alaska Railroad track and bridge projects should be permitted with minimal review.</i>	Undesignated	A

EAGLE RIVER-EKLUKNA

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
101	131	2 through 6	EKLUKNA FLATS (176.5 acres; Public & Private Ownership) (Scores: Hydrology = 104; Habitat = 143; Species Occurrence = 60; Social Function = 26) High habitat values; could be enhanced by enlarging ponds. <i>Hydrology connections, cross-drainage and ponds shall be preserved to the maximum extent. Minor highway improvements should be permitted.</i>	Special Study	A
102	131	12 and 13	EKLUKNA RIVER AND THUNDERBIRD CREEK CORRIDOR AND ONE ISOLATED SITE UPSTREAM (10.5 acres; Public & Private Ownership) (Scores: Hydrology = 72; Habitat = 88; Species Occurrence = 43; Social Function = 25) <i>A precise wetland delineation shall be required prior to permitting. A 65-foot setback shall be maintained along waterways/drainages. Isolated site can be filled with a General Permit.</i>	Developable	A/C
102A	None	None	BARBARA LAKE/EKLUKNA VALLEY WETLANDS (Private Ownership) (Scores: Not Assessed) A large wetland basin exists within Sections 34/35 of Township 16N, Range 1E, south of Eklutna Lake Road and west of Barbara Lake. These areas were not delineated or evaluated for this revision. <i>Any development here shall require Corps notification and/or approval.</i> Individual 404 permits are recommended in this area as it includes several springs and ephemeral creeks, which shall be identified in permit and plat process.	Undesignated	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
103	122	12	THUNDERBIRD HEIGHTS SUBDIVISION (11.2 acres; Private Ownership) (Scores: Hydrology = 81; Habitat = 74; Species Occurrence = 15; Social Function = 21) A 65-foot setback shall be maintained along the drainage in southern site. Tract C near Sandpiper classed as "C" wetland due to minimum values. Highest values concentrated at drainage way.	Developable	C
103A Pond	121	12	THUNDERBIRD HEIGHTS (1 acre; Private Ownership) (Scores: Hydrology = 79; Habitat = 64; Species Occurrence = 23; Social Function = 21) Pond at Old Glenn Highway classed as "B" wetland; flood storage, drainage functions shall be maintained. Additional information on inflow/storage shall be required during permit process. Inflow identified as creek shall be maintained with 65-foot setback.	Undesignated	B
104	None	16	THUNDERBIRD FALLS SUBDIVISION: AT CREEK (11.6 acres; Private Ownership) (Scores: Hydrology = 75; Habitat = 53; Species Occurrence = 23; Social Function = 28) Substantial streamflow; has flood storage values. Habitat values not fully known. A 65-foot setback shall be maintained along the creek to maintain flood storage values. Fill shall be limited to the minimum necessary for utilities, a single-lane access driveway and house and accessory structure pads. Fill for yards is not authorized in this unit under the GPs. Large lot zoning should allow for minimum fill to retain drainages.	Undesignated	C
104	121	16 and 17	BETWEEN GLENN HIGHWAY AND PARADIS LANE, NORTH OF EDMONDS LAKE (9.5 acres; Public & Private Ownership) (Scores: Hydrology = 86; Habitat = 82; Species Occurrence = 30; Social Function = 26) Wetlands adjacent to the tributary channel shall be retained by a 65-foot setback.	Preservation Undesignated	C
104	121	17	NORTH OF EDMONDS LAKE/EAST OF GLENN HIGHWAY (7.8 acres; Private Ownership) (Scores: Hydrology = 76; Habitat = 50; Species Occurrence = 17; Social Function = 22) A 25-foot transitional buffer shall be maintained between areas covered under the GPs and "A" wetlands.	Developable	C
104	131	11	EKLUTNA FLATS (18.5 acres; Private Ownership) (Scores: Not Assessed) Drainage way/outlet stream west of Glenn Highway shall be preserved with 65-foot setback. Shall include drainage analysis and location of channel on permits.	Special Study	B
105	119	17	WEST OF GLENN HIGHWAY - WEST OF EDMONDS LAKE (46.3 acres; Private Ownership) (Scores: Hydrology = 96; Habitat = 96; Species Occurrence = 56; Social Function = 50) Creek channel shall be maintained undisturbed. A master development plan shall be required, including a hydrology analysis and shall include a 65-foot setbacks from creeks. Drainage way and ephemeral flows shall be maintained. Other setbacks and fill restrictions may be required during the platting process.	Special Study	B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
106	118	17 and 18	MIRROR LAKE OUTLET (8.6 acres; Private Ownership) (Scores: Hydrology = 70; Habitat = 76; Species Occurrence = 48; Social Function = 35) <i>Fish present in stream which shall be maintained with a minimum 65-foot setback. Creek crossings shall require bridges or arched culverts to protect habitat. A master development plan shall be required, including a hydrology analysis which shall include design to retain drainage and ephemeral flows. Other setbacks and fill restrictions may be required in permit and plat process.</i>	Undesignated /Special Study	B
106	125	19	NORTH OF RANKIN ROAD (55 acres; Private Ownership) (Scores: Hydrology = 80; Habitat = 53; Species Occurrence = 21; Social Function = 28) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways that would allow maintenance of existing surface drainage. Large site size pushed scores higher than expected. Site is isolated basin with minimal values.</i>	Undesignated /Special Study	C
107	118	17	WEST OF GLENN HIGHWAY - SOUTH OF EDMONDS LAKE (11.9 acres; Private Ownership) (Scores: Hydrology = 59; Habitat = 41; Species Occurrence = 23; Social Function = 47) <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways and ephemeral flows that would allow maintenance of existing surface drainage. A 65-foot setback shall be maintained along creeks. A master development plan is recommended. Other setbacks and fill restrictions may be required. Isolated sites are "C" wetlands.</i>	Special Study	B/C
108	117	17	OUTLET OF EDMONDS LAKE (18.1 acres; Public & Private Ownership) (Scores: Hydrology = 86; Habitat = 88; Species Occurrence = 48; Social Function = 57) <i>Possible fish habitat; important hydrological conveyance. All disturbance shall be avoided to the maximum extent.</i>	Preservation	A
108A	116	16	EAST SIDE OF EDMONDS LAKE (2.8 acres; Private Ownership) (Scores: Hydrology = 87; Habitat = 73; Species Occurrence = 29; Social Function = 49) <i>Minimal fringe wetlands present on lakeshore. Minor road maintenance/expansion fills could be permitted via Nationwide Permit. Fringe areas shall otherwise be preserved.</i>	Developable	Open Water/ A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
109	113	17 and 26	MIRROR LAKE AND FRINGE WETLANDS (92.9 acres; Public & Private Ownership) (Scores: Hydrology = 116; Habitat = 150; Species Occurrence = 123; Social Function = 82) Fringe wetlands and open water of Mirror Lake assessed together. <i>Minimum setback of 75 feet shall be required where wetlands are contiguous with the lake or, if less than 75 feet of wetlands, the setback shall be the width of those wet areas. Minor fills for lake access are permitted but shall be limited to lake access dock structures whenever practicable.</i>	Undesignated	A
109	113	26	MIRROR LAKE, SOUTH SIDE (63.15 acres; Private Ownership) (Scores: Hydrology = 113; Habitat = 101; Species Occurrence = 18; Social Function = 34) <i>Fill shall be the minimum necessary for utilities, pads for a house and an accessory structure and single lane access driveway. Fill for roads is not authorized in this unit under the GPs. A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways that would allow maintenance of existing surface drainage. A minimum of a 65-foot setback shall be maintained along the creek and pond south of Lakeshore Drive. A 75-foot setback from ordinary high water shall be maintained along Mirror Lake; lakefront structures on piles may be permitted under the GPs in the 75-foot setback. No work shall be done within 200 feet of Mirror Lake from April through July.</i>	Developable	C
109A	113	26	SOUTHEAST OF ANTHEM AND LAKESHORE DRIVE (2 acres; Private Ownership) (Scores: Hydrology = 86; Habitat = 67; Species Occurrence = 18; Social Function = 34) <i>A 65-foot setback shall be maintained around the seasonal pond and drainage area into site.</i>	Developable	C
110	115A	17	MIRROR LAKE TO EDMONDS LAKE (40.2 acres; Public Ownership) (Scores: Hydrology = 99; Habitat = 89; Species Occurrence = 91; Social Function = 80) A master park plan for the area should be developed which identifies allowed uses and appropriate activities. <i>Any major park amenity development shall avoid drainage patterns and open water areas.</i> The master park plan should also identify those wetland areas to be protected for water quality maintenance.	Preservation	A
111	113A	27	MEADOW LAKE (27.27 acres; Private Ownership) (Scores: Hydrology = 113; Habitat = 103; Species Occurrence = 44; Social Function = 62) Wetlands fringe around the lake is not wide enough for development as a "C" site with a setback. Therefore, the entire site is designated as "A" wetland. Minor lake access structures are permitted.	Developable	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
112	None	27	PETERS GATE SUBDIVISION: THREE SITES (46.84 acres; Private Ownership) (Scores: Hydrology = 93; Habitat = 93; Species Occurrence = 18; Social Function = 36) Provides water quality, detention for Peters Creek. <i>A 65-foot setback shall be maintained along secondary drainageways and creek. A written plan shall be submitted to the Municipal Department of Community Planning and Development for review and approval describing efforts to avoid and minimize impacts to the tract's habitat, water quality, and hydrologic values. Examples of possible measures to consider include timing windows, additional setbacks, vegetative screening, reduction of fill, and onsite enhancement. Cross-drainage shall be maintained. Fill shall be the minimum necessary for utilities, pads for a house and an accessory structure and a single-lane access driveway. Fill for yards is not authorized under the GPs.</i>	Undesignated	C
113	115	25	MIRROR DRIVE (7.6 acres; Private Ownership) (Scores: Hydrology = 78; Habitat = 47; Species Occurrence = 27; Social Function = 39) Use of cluster development should be incorporated in plats to protect seasonal pond and to identify drainages. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways and the seasonal pond that would allow maintenance of existing surface drainage.</i>	Preservation	C
114	126	24	TWO ISOLATED SITES: NORTH OF OBERG ROAD (8.5 acres; Private Ownership) (Scores: Hydrology = 61; Habitat = 35; Species Occurrence = 18; Social Function = 20) <i>Drainage shall be maintained through sites.</i>	Special Study	C
114	115	18 and 25	NORTH OF DEER PARK, WEST OF WATER LINE (14.7 acres; Private Ownership) (Scores: Hydrology = 66; Habitat = 67; Species Occurrence = 22; Social Function = 20) Topographic low point conveys storm drain flows through site. <i>Storm drainage through site shall be maintained. A 100-foot setback shall be maintained along tributary channel.</i>	Preservation	C
115	115	23 and 28 and 29	PETERS CREEK CORRIDOR AND ADJACENT DRAINAGE (5 acres approx.; Public & Private Ownership) (Scores: Not Assessed) Includes wetlands along creek. <i>Work adjacent to creek or other connecting drainages shall require wetland delineation and Corps approval. Riparian wetlands shall be preserved.</i>	Preservation	A
116	130	31 and 32 and 35	LOWER FIRE CREEK AND BEACH LAKE COMPLEX (300 acres approx.; Public & Private Ownership) (Scores: Not Assessed) Municipal parkland shall be preserved. Minor park and trail amenities and road access are permissible. Private lands at creek mouth controlled by the 1979 Agreement of Compromise and Settlement between the Municipality and Eklutna, Inc. Under this agreement, the 100-year floodplain is to be preserved except for trails. <i>Areas outside the floodplain shall require an Individual Permit and an additional 25-foot setback from "A" wetland areas.</i>	Preservation	A/B

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
117	108	35 and 36	MINK CREEK: WERE/JERRY (85+ acres; Public & Private Ownership) (Scores: Hydrology = 118; Habitat = 93; Species Occurrence = 36; Social Function = 42) "A" wetland designation for Creek corridor (150-feet wide at creek forks, and includes the lake feeding Mink Creek.) <i>A 25-foot buffer shall be maintained between any fills and the "A" wetland sites.</i> "C" wetland designation for area north of the lake. "B" wetland designation for remainder of site. Area is generally valuable to Mink Creek flood control, water quality and wildlife habitat. <i>Drainage and flood control functions shall be maintained. Any fill authorized under the GPs shall be a minimum of 200 feet from the edge of Mink Lake. Fill shall be the minimum necessary for utilities, pads for a house and an accessory structure and a single-lane access driveway. Fill for yards is not authorized in this unit under the GPs. An impervious barrier shall be placed at the margins of any fill authorized by these GPs to the bottom of the peat layer or a minimum of one foot below the bottom of the gravel fill to preclude groundwater outmigration from an adjacent wetland.</i>	Developable	A/B/C
117	110	30	SOUTH BIRCHWOOD/TOFSON STREET (86 acres; Private Ownership) (Scores: Hydrology = 110; Habitat = 151; Species Occurrence = 54; Social Function = 40) <i>Ponded areas and drainage corridor out of Tojson Street lobe, which drains into Mink Creek shall be retained; contributes as headwaters. Fringes could be developed with appropriate setbacks to drainage zones, which shall be determined in the platting and permitting processes. Northerly lobe (approximately 12 acres) is "C" wetland and shall include a 25-foot buffer to "A" wetland areas.</i>	Preservation	B
117A	110A	30 and 31	OFF BIRCHWOOD—JAYHAWK RIGHT-OF-WAY (10.11 acres; Private Ownership) (Scores: Hydrology = 90; Habitat = 66; Species Occurrence = 18; Social Function = 37) <i>Poorly defined stream channel. A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks (minimum of 65 feet) along drainageways that would allow maintenance of existing surface drainage.</i>	Undesignated	C
117A	107	35	BEVERLY/SOUTH BIRCHWOOD (4 acres; Private Ownership) (Scores: Hydrology = 74; Habitat = 48; Species Occurrence = 18; Social Function = 36) Minimal values.	Developable	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
118	107	39	OLD GLENN HIGHWAY: NORTH SIDE OF PARKS CREEK (12.7 acres; Private Ownership) (Scores: Hydrology = 66; Habitat = 45; Species Occurrence = 18; Social Function = 30) Isolated site. <i>A hydrologic analysis shall be done and shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways that would allow maintenance of the south end connection to Parks Creek such that existing surface drainage will be maintained.</i>	Developable	C
119	128	37 and 38	OLD GLENN HIGHWAY: CANYON (13.62 acres; Public & Private Ownership) (Scores: Hydrology = 89; Habitat = 89; Species Occurrence = 24; Social Function = 51) Canyon labeled Open Water and creek channel. <i>A hydrologic analysis shall be done if the drainages or Parks Creek would be affected, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways that would allow maintenance of the drainage conveyance to Parks Creek such that existing surface drainage will be maintained.</i> Isolated site on north side of Old Glenn Highway remains as "C" wetland.	Conservation	A/C/Open Water
120	128	39 and 40	PARKS CREEK - EAST SIDE OF HIGHWAY (45.5 acres; Private Ownership) (Scores: Hydrology = 95; Habitat = 89; Species Occurrence = 18; Social Function = 34) Setbacks encompass most of wetland. <i>Riparian sites are classed "A" and shall remain undisturbed to the maximum extent for flood values/water quality and probable fish habitat.</i> Non-connected spur wetlands away from creek floodplain is "C" wetlands.	Developable	A/C
121	111	40	BEAVER POND: PARKS CREEK (North of Chugiak High School) (38.56 acres; Public & Private Ownership) (Scores: Hydrology = 104; Habitat = 123; Species Occurrence = 42; Social Function = 50) Southern areas to remain as "C" wetlands; remainder of site, including pond/creek to be classed as "A" wetlands due to hydrology/habitat values. Flood control and high habitat value site. <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways that such that existing surface drainage will be maintained.</i> A 100-foot setback shall be maintained along Parks Creek to protect anadromous fish resources. A 65-foot setback shall be maintained along the tributary of Parks Creek in the southern lobe.	Developable	A/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
122	100	34 and 41 and 46	FIRE CREEK COMPLEX DOWNSTREAM OF THE ALASKA RAILROAD (230 acres approx.; Public Ownership) (Partial Area Assessment Scores: Hydrology = 109; Species Occurrence = 78; Social Function = 41) Public land, including part of Beach Lake park. <i>Site shall be preserved as indicated.</i> Minor trails, park amenities, road access and utility placement to be permitted where no practicable upland alternatives exist. <i>Any fills shall be set back a minimum of 85 feet from the creek.</i>	Preservation	A
123	112	34 and 41	PSALM LAKE COMPLEX (24 acres; Public Ownership) (Scores: Not Assessed) Includes the open water and wetland fringe of Psalm Lake. <i>Site shall be preserved.</i>	Preservation	A
124	97 and 98	33 and 42 and 43	MILITARY LANDS (5.8 acres; Public Ownership) (Scores: Not Assessed) <i>Shall be preserved and managed via EO #11990 for military lands.</i>	Preservation	A
125	None	46	PIONEER DRIVE: TWO SITES (7.5 acres; Private Ownership) (Scores: Hydrology = 61; Habitat = 36; Species Occurrence = 18; Social Function = 48) Minimal values. <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways that such existing surface drainage will be maintained.</i>	Undesignated	C
125	102	46	HILLCREST/WATERLINE (35.5 acres; Private Ownership) (Scores: Hydrology = 88; Habitat = 69; Species Occurrence = 18; Social Function = 41) <i>A 100-foot setback shall be maintained around the ephemeral pond at the northern end of the site and the drainage into and out of the pond, as well as along the stream in wetlands that exists wetland toward the northeast at See-Saw right-of-way. Could be used as open space in cluster zone/PUD.</i>	Developable	C
126	106	47	NORTHEAST INTERSECTION OF SOUTH BIRCHWOOD/GLENN HIGHWAY (21.27 acres; Public & Private Ownership) (Scores: Hydrology = 96; Habitat = 79; Species Occurrence = 32; Social Function = 39) “C” wetlands designation for isolated southern site. “B” wetlands designation for remainder of site; <i>requirement for permit shall include hydrology analysis to identify stream channels and functions.</i>	Preservation	B/C
127	103	47	DRAINAGE INTO LOWER FIRE LAKE (8.76 acres; Private Ownership) (Scores: Hydrology = 93; Habitat = 88; Species Occurrence = 24; Social Function = 61) Pond to be designated as “Open Water; revise wetland boundary. <i>Drainage through northern unconnected site shall be identified and maintained.</i>	Developable	A/Open Water

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
127	103	47	DARBY ROAD (9.65 acres; Private Ownership) (Scores: Hydrology = 76; Habitat = 64; Species Occurrence = 18; Social Function = 59) <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks along drainageways and creek such that existing surface drainage will be maintained. Platting process shall provide hydrology information.</i>	Developable	C
128	105	46 and 49	LOWER FIRE LAKE (including Fire Creek) (68 acres; Public & Private Ownership) (Scores: Hydrology = 130; Habitat = 145; Species Occurrence = 117; Social Function = 64) High value habitat, flood control and water quality values. <i>Where wetlands fringe is on the lake edge, setbacks shall be a minimum of 65 feet. Fills into the lake and creek shall be avoided.</i> Septic setback requirements for new lots should be handled by variance rather than by allowing fill into the lake. The Department of Health and Human Services should review variance requests for this unusual area.	Preservation	A
129	104	47 and 48	UPPER FIRE LAKE/CREEK (29.35 acres approx.; Public & Private Ownership) (Scores: Hydrology = 112; Habitat = 84; Species Occurrence = 29; Social Function = 37) Includes lake fringe and inlet creek wetland corridors. Important to fish habitat, water quality, flood control of Fire Creek and lake complex. <i>Fills shall be separated from waterbodies via 100-foot minimum setbacks.</i>	Mixed Developable	A
130	103	45 49 and 50	MIDDLE FIRE CREEK COMPLEX (Seward Highway to Alaska Railroad) (175 acres approx.; Private Ownership) (Scores: Hydrology = 87; Habitat = 112; Species Occurrence = 90; Social Function = 40) "A" wetlands to include major portions of 100-year floodplain via a 100-foot setback on each side of creek. Remaining parallel wetlands designated "C". <i>Beaver ponds at the Alaska Railroad shall be preserved. Area where Site #136 connects to Fire Creek corridor (Map 50) is "B"; the hydrologic connection shall be delineated and retained. A setback of at least 100 feet shall be maintained along the creek due to its anachronous fish resources. A 25-foot transitional buffer shall be maintained between fill authorized under the GPs and "A" wetlands; a 15-foot transitional buffer shall be maintained between fill authorized under the GPs and "B" wetlands</i>	Preservation/ Developable	A/B/C
131	77 through 83	44 and 51	CLUNIE LAKE COMPLEX (372 acres; Public and Private Ownership) (Scores: Hydrology = 127; Habitat = 177; Species Occurrence = 127; Social Function = 48) <i>Military lands shall be preserved and managed via EO #11990. Private lands at east end could be developed under cluster housing or PC zoning. Any design shall include building and fill setbacks of 100 feet or more from waterbodies and local drainages.</i>	Preservation	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
132 and 133	76	50	WEST FIRE CREEK COMPLEX (24 acres approx.; Public & Private Ownership) (Scores: Not Assessed) Outer wetland of Fire Creek complex, west of creek corridor. <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill such that existing surface drainage will be maintained. A 100-foot setback shall be maintained around the pond and any channel with above-ground flow. A 65-foot setback shall be maintained along subsurface drainage corridors.</i>	Developable	C
134	100	49	FIRE CREEK: PRIOR TO HIGHWAY CROSSING (18.2 acres; Private Ownership) (Scores: Hydrology = 85; Habitat = 90; Species Occurrence = 48; Social Function = 47) <i>A 25-foot transitional buffer shall be maintained between "A" and "C" sites, and a 100-foot setback shall be maintained along Fire Creek due to its anadromous fish resources.</i>	Preservation	A/C
135	None	49	UPPER CAROL CREEK (29.6 acres approx.; Public Ownership) (Scores: Hydrology = 97; Habitat = 90; Species Occurrence = 33; Social Function = 68) Contains main channel and numerous feeder springs and tributaries. Provides flood control and water quality values. <i>Developer shall provide wetland determination for the site above the Old Glenn Highway. Four feeder springs are present and shall be avoided.</i>	Developable	B
135	Part 76	49	LOWER CAROL CREEK (8.35 acres; Private Ownership) (Scores: Hydrology = 102; Habitat = 82; Species Occurrence = 48; Social Function = 51) Provides fish habitat. <i>Area within floodplain and tributary of creek shall be preserved.</i>	Preservation	A
136	76	53	SOUTHEAST END OF POWDER RESERVE COMPLEX (75 acres approx.; Public & Private Ownership) (Scores: Not Assessed) Includes main corridor of wetlands to Fire Creek. <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill such that existing surface drainage will be maintained. A written plan shall be submitted to the Municipal Department of Community Planning and Development describing how the proposed fill would minimize impacts to habitat. Examples of possible measures to consider include timing windows, additional setbacks, vegetative screening, reduction of fill, and onsite enhancement. Developer shall submit hydrologic and habitat information for projects in the "B" site during an Individual Section 404 permit review and plat processing for determination of future additional setbacks and avoidance zones.</i>	Preservation Developable	B/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
137	None	54	SCHROEDER SUBDIVISION PONDS (3.7 acres; Private Ownership) (Scores: Hydrology = 72; Habitat = 57; Species Occurrence = 18; Social Function = 52) <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks around the pond and along drainageways such that drainage into the site is maintained. "B" wetlands designation for pond and fringe on north side of Schroeder Road. Pond shall be preserved.</i>	Preservation	B/C
137A	75	53	SOUTH REGENCY DRIVE (1.4 acres; Private Ownership) (Not Assessed) Site is highly disturbed, remnant wetland. <i>A hydrologic analysis shall be done and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property and to maintain surface and subsurface cross drainage.</i>	Developable	C
138	None	54	SPRINGBROOK LOOP (3.66 acres; Private Ownership) (Scores: Hydrology = 82; Habitat = 79; Species Occurrence = 18; Social Function = 49) Site has considerable run-off, drainage problems. <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks such that surface drainage patterns are maintained.</i>	Undesignated	C
138	None	54	LUGENE AND SPRINGBROOK (1.03 acres; Private Ownership) (Scores: Hydrology = 58; Habitat = 36; Species Occurrence = 18; Social Function = 33) Minimal values; <i>drainageways shall be maintained through the site.</i>	Developable	C
139	63 through 75	53 and 58	MILITARY LANDS (60 acres; Public Ownership) (Scores: Not Assessed) <i>Shall be preserved and managed via EO #11990.</i>	Preservation	A
140	63 through 75	58	MILITARY LANDS (Acreage unknown; Public Ownership) (Scores: Not Assessed) <i>Shall be preserved and managed via EO #11990.</i>	Preservation	A
141	85	58	MOUTH OF MEADOW CREEK (1.67 acres; Public & Private Ownership) (Scores: Hydrology = 94; Habitat = 77; Species Occurrence = 48; Social Function = 61) Provides for fish habitat. <i>Wetlands shall be maintained in an undisturbed state.</i>	Preservation	A
142	70	58 and 61	MILITARY LAND (Public Ownership) (Scores: Not Assessed) <i>Shall be preserved and managed via EO #11990.</i>	Preservation	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
143	90	62 through 86	EAGLE RIVER GREENBELT (Public Ownership) (Scores: Not Assessed) <i>Entire wetland complex shall be preserved to the maximum extent. Minor trail and park amenities, and access roads permissible if no other practicable location possible. Very high habitat, flood control and recreation values. Further field delineation of wetlands shall be required prior to permitting in the greenbelt.</i>	Preservation Conservation Developable	A
143A	91	69 70 78 and 84	LOWER EAGLE RIVER VALLEY. LANDS OUTSIDE THE EAGLE RIVER GREENBELT (25 acres approx.; Public & Private Ownership) (Scores: Not Assessed) The upstream areas on maps 69/70 are transitional between the river floodplain and the old river terraces and are "B" wetlands; <i>drainageways, channels, and ponds shall be identified and preserved. The downstream sites are generally within the floodplain and are "A" wetlands and shall be avoided to the maximum extent.</i>	Preservation Conservation	A/B
144 and 144A	90 and 91	62	SOUTH SIDE OF EAGLE RIVER (Greenbelt = Public Ownership; 8 acres = Private Ownership) (Scores: Not Assessed) "B" wetlands: located west of the North Eagle River bridge (outside the greenbelt). "C" wetlands: Dena'Ina Estates Subdivision. If platted, wetlands above greenbelt on upper shelf are developable. These are isolated and low value. <i>A 25-foot transitional buffer shall be maintained between "A" wetlands and any fill authorized under the GPs.</i>	Conservation	B/C
145	90	72	HILAND ROAD/STONEHILL (39 acres; Private Ownership) (Scores: Hydrology = 90; Habitat = 92; Species Occurrence = 18; Social Function = 43) <i>A jurisdictional determination shall be done for the previously undesignated areas. A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property; maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks (minimum 65 feet) such that surface drainage patterns are maintained. Fill shall be the minimum necessary for utilities, pads for a house and an accessory structure and a single-lane access driveway. Fill for yards is not authorized in this unit under the GPs. Cluster development should be used to preserve streams and surface drainage corridors in "B" areas. Small isolated sites are "C".</i>	Developable	B/C
146	87+	63	EAST OF PARKVIEW TERRACE (14 acres approx.; Private Ownership) (Scores: Hydrology = 83; Habitat = 56; Species Occurrence = 18; Social Function = 42) Minimal values. Assessment mostly applied to "C" wetland areas. Easterly site adjacent to river and floodplain is "B" wetland. <i>Cluster design shall be applied to avoid floodplain and higher value sites near river.</i> Recent delineation identified less wetland area on bluff; three isolated pockets are low value. Large area on east side drains into higher value sedge ponds. <i>A 25-foot transitional buffer shall be maintained between "A" wetlands and any fill authorized under the GPs.</i>	Conservation Developable	B/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
147	89	63 and 64	DRAINAGEWAY BELOW RAVENWOOD SCHOOL (13.9 acres; Private Ownership) (Scores: Hydrology = 105; Habitat = 84; Species Occurrence = 48; Social Function = 45) Conveys drainage from subdivisions above and natural seeps into Eagle River via small channels in gullies. <i>Shall be preserved.</i>	Preservation	A
148	84	71	SOUTH SIDE OF EAGLE RIVER/HILAND ROAD (5.7 acres; Private Ownership) (Scores: Hydrology = 73; Habitat = 78; Species Occurrence = 48; Social Function = 34) Includes spurs not located within the greenbelt. <i>Habitat areas and hydrologic connections to the greenbelt and Eagle River shall be preserved and buffered.</i>	Conservation	B
149	92	64 through 69	LARGE "MIXED DEVELOPMENT" SITE SOUTH OF EAGLE RIVER ROAD (420.2 acres; Private Ownership) (Scores: Hydrology = 131; Habitat = 114; Species Occurrence = 80; Social Function = 35) Provides direct hydrological connection to Eagle River. <i>Stream channels, ponds and surface flows shall be maintained with setbacks as open space, i.e. PC or cluster development techniques. Identification of permanent channels and general hydrology shall precede the plat and permit processes. Northern spur into Sunny Valley Subdivision needs a wetland determination. Road crossings shall be minimized and non-dewatering techniques shall be incorporated into design in the area. Intent of the designation is to maintain significant hydrology values and connections to Eagle River. Includes "B" sites between greenbelt/floodplain and upper river terraces north of the river.</i>	Conservation Developable	B
150	94	79 and 80	STREAM CORRIDOR/WETLANDS ADJACENT TO THE GREENBELT OUT EAGLE RIVER ROAD, NORTH OF THE RIVER (18 acres approx.; Public & Private Ownership) (Scores: Not Assessed) Includes old slough, ponds and tributary of Eagle River. <i>High habitat and flood control functions shall be preserved.</i>	Conservation	A

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Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
161	None	5	<u>SOUTH INDIAN</u> (16.4 acres; Private Ownership) (Scores: Hydrology = 78; Habitat = 76; Species Occurrence = 50; Social Function = 64) <i>Creeks shall be maintained with 65-foot setbacks. Remainder of site could be developed; center of wetland is a possible enhancement area.</i>	Undesignated	B
170	None	6	<u>BIRD CREEK FLOODPLAIN</u> (24.9 acres; Public Ownership) (Scores: Hydrology = 85; Habitat = 95; Species Occurrence = 96; Social Function = 57) <i>Significant hydrology, fisheries values which shall be preserved in its entirety.</i>	Undesignated	A
171	None	7	<u>BIRD CREEK VALLEY</u> (5.1 acres; Public & Private Ownership) (Scores: Hydrology = 71; Habitat = 68; Species Occurrence = 28; Social Function = 45) Small isolated sites with creek connections; maintain function as headwaters for local creeks. <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks such that surface drainage patterns are maintained and headwaters are protected. The parcel north of and adjacent to the highways is designated B"; streams shall be identified and avoided via 65-foot setbacks.</i>	Undesignated	B/C
172	None	8 and 9	<u>SOUTH OF BIRD—ROADSIDE</u> (16.3 acres; Public Ownership) (Scores: Hydrology = 77; Habitat = 77; Species Occurrence = 37; Social Function = 44) Possible fish-rearing habitat in ponds; <i>a fish survey shall be done before permitting to evaluate the presence and use of fish in the area. A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks such that surface drainage patterns are maintained. Cross-drainage shall be maintained.</i> Map 8 sites classed as "C" wetlands; map 9 sites classed as "B" wetlands and fill could be placed at fringes, away from key hydrologic zones.	Undesignated	B/C
173	None	10 and 12	<u>SMALL SITES—ROADSIDE</u> (5.5 acres; Public Ownership) (Scores: Hydrology = 67; Habitat = 53; Species Occurrence = 33; Social Function = 40) Isolated sites; <i>drainageways shall be maintained through the sites via avoidance.</i>	Undesignated	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
174	None	12	LARGE POND—BIRD POINT (9 acres; Public Ownership) (Scores: Hydrology = 83; Habitat = 82; Species Occurrence = 65; Social Function = 32) High bird use, water quality, retention values. Unique site; one of few open freshwater sites between Anchorage and Girdwood. <i>Minor transportation/utility-related fills could occur but shall avoid open water and drainages.</i>	Undesignated	B
180	None	42	PORTAGE CAFE (5.6 acres; Private Ownership) (Scores: Hydrology = 58; Habitat = 65; Species Occurrence = 61; Social Function = 27) <i>Habitat values shall be retained by minimizing fills. A written plan shall be provided to the Municipal Department of Community Planning and Development for review; it shall describe the efforts to avoid and minimize impacts to habitat by reduction in fill and design. Examples of possible measures to consider include timing windows, additional setbacks, vegetative screening, reduction of fill, and onsite enhancement. A 25-foot transitional buffer shall be maintained between this tract and adjacent coastal wetlands. All drainage must be treated on-site before being released to adjacent wetlands.</i>	Undesignated	C
201	160	24 and 25	TIDEWATER SLOUGH (25.4 acres; Public Ownership) (Scores: Hydrology = 97; Habitat = 106; Species Occurrence = 85; Social Function = 50) Downstream portion, below Railroad tracks, is within intertidal wetlands. Upstream portion provides high fish/wildlife habitat; could be used for a habitat enhancement site. <i>Limited trails, utility development may be possible but shall be limited to existing easements or at fringes.</i>	Preservation	A
202	None	25	NORTHEAST CORNER HIGHWAY/GIRDWOOD ACCESS ROAD (29.2 acres; Public Ownership) (Scores: Hydrology = 94; Habitat = 108; Species Occurrence = 42; Social Function = 57) Site mostly non-tidal, has freshwater influence; limited habitat, water quality, open space values. Habitat enhancement possible by developing interconnected ponds. Ephemeral drainageway in Northwest corner shall be retained for recharge, run-off. Northeast corner (approximately 3-5 acres) is a lower value transitional wetland and classed "C". <i>A pre-discharge notification procedure shall be used the Corps shall FAX the application to EPA, USFWS, NMFS, ADFG, ADEC, and ADFG; the agencies shall respond within five working days if they have a problem with the proposal: within fifteen calendar days of the FAX the agencies shall provide substantive comments if they have noted a problem earlier. If no resolution can be reached at that time, the Corps shall proceed with the application as an individual permit application. A 25-foot transitional buffer shall be maintained between "A" wetlands and any fill authorized under the GPs. This site is one of very few potential transportation facility zones within the Girdwood area and the Draft GIRDWOOD AREA PLAN (Spring 1994) further identifies this wetland for Commercial Land Use. Encroachment of fill into "A" wetland zone is permissible for commercial uses and/or public facilities but drainage and habitat functions shall be avoided and retained or replaced in the same general area—shall be assessed and determined in the Individual 404 process.</i>	Undesignated	A/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
203	None	25	OLD GIRDWOOD TOWNSITE (3.8 acres; Private Ownership) (Scores: Not Assessed) Area is highly disturbed. <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks such that surface drainage patterns are maintained.</i>	Undesignated	C
204	None	25	SOUTH OF GOLD AVENUE, WEST OF GLACIER CREEK (3.8 acres; Private Ownership) (Scores: Hydrology = 69; Habitat = 73; Species Occurrence = 28; Social Function = 56) Conveys flows out of old townsite; may provide fish habitat; higher fringes could be developed; <i>the large meadow adjacent to the highway shall be preserved.</i>	Undesignated	B
205	None	25 and 27	EAST OF GLACIER CREEK/NORTH TO VIRGIN CREEK (93.8 acres; Public Ownership) (Scores: Hydrology = 77; Habitat = 126; Species Occurrence = 82; Social Function = 58) High values for bird and fish habitat; conveys middle and lower Virgin Creek system. Could be used for habitat enhancement. This side of the valley is the only location for an alternate road and utility access for upper Girdwood Valley which may in the future require placement through wetlands. <i>Minor fills for railroad/highway improvements and utilities should be permitted but these shall avoid channels and floodplain to the maximum extent. Assessment refers only to area between the Alaska Railroad and the Seward Highway.</i>	Undesignated	A
206	152	25 and 26	ISOLATED SITES NORTHEAST OF SITE #205 (15 acres approx.; Public Ownership) (Scores: Not Assessed) In floodplain of Virgin and Glacier Creeks. <i>Provides flood storage and fish habitat functions which shall be preserved.</i>	Preservation	A
207	148 and 157	25	NEW INDUSTRIAL SUBDIVISION AND AREAS BETWEEN CALIFORNIA AND GLACIER CREEKS (30 acres; Public Ownership) (Scores: Not Assessed) Southern wetland contains confluence zone of California and Glacier Creeks; important fish habitat = "A" wetland. Northern site is mostly developed. Remaining wetlands restricted in previous Corps permit.	Preservation Undesignated	A
208	159	23 and 25	ABOVE GIRDWOOD ACCESS ROAD, IN LOWER VALLEY (5.5 acres; Private Ownership) (Scores: Hydrology = 73; Habitat = 42; Species Occurrence = 17; Social Function = 43) Minimal values. <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks such that surface drainage patterns are maintained.</i>	Developable	C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
209	148	22 and 23	"SQUIRREL CAGE" (88.2 acres; Public & Private Ownership) (Scores: Hydrology = 110; Habitat = 130; Species Occurrence = 85; Social Function = 56) Located within the floodplain of California Creek. Provides diverse, high value fish/wildlife habitat functions; breeding area for several significant species. <i>Recreation amenities could be permitted but shall be located at the fringes where wetland transitions to upland, to the maximum extent.</i>	Preservation	A
210	155	23	ISOLATED SITE ABOVE ALYESKA HIGHWAY/CROW CREEK ROAD (5 acres; Public Ownership) (Scores: Not Assessed) <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks such that surface drainage patterns are maintained. A 100-foot setback shall be maintained along creeks and drainageways.</i>	Preservation	C
211	145	22	SOUTHWEST OF ALYESKA SUBDIVISION (14 acres approx.; Public Ownership) (Scores: Not Assessed) Lower areas of Municipal Heritage Land Bank land adjacent to Glacier Creek. <i>The Official Streets and Highways Plan identifies a future right-of-way which could be permitted but shall be located in less valuable wetland fringes, along with minor park and trail amenities. Located in only suitable area for such transportation and recreation corridors.</i>	Preservation	A

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
212, 213	144 through 147	21 and 22	ALYESKA SUBDIVISION (56.18 acres; Public Ownership—"A" wetlands; Private Ownership—"C" wetlands) (Scores: Hydrology = 112; Habitat = 96; Species Occurrence = 60; Social Function = 47) <i>Permit and platting process shall require identification of recharge, flood storage and habitat areas throughout Sites 212 and 213. Municipal lands in Site 212 mostly classed as "A" wetlands.. Park plan identifies active development; OS&HP identifies collector road in portions of Site 212. These developments shall be permitted in less valuable portions . Site 213 is the largest and only area of private land suitable for residential expansion in the Girdwood Valley.. A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks such that surface drainage patterns are maintained. Fill shall be limited to the minimum necessary for utilities, pads for a house and accessory structure, and single-lane access driveway. Fill for yards is not authorized in this unit under the GPs. Cross-drainage shall be maintained. A 100-foot setback from creeks shall be maintained to protect anadromous fish resources. A written plan shall be submitted to the Municipal Department of Community Planning and Development describing how the proposed fill would minimize impacts to fish and wildlife habitat. Examples of possible measures to consider include timing windows, additional setbacks, vegetative screening, reduction of fill, and onsite enhancement. A limited pre-discharge notification procedure shall be instituted by the Corps. The Corps will FAX copies of the application and of the hydrologic analysis and habitat review to EPA, USFWS, NMFS, ADFG, ADGC, and ADEC after being provided these by the Municipality. Any concerns specifically related to the hydrologic analysis shall be raised within five working days of the FAX and conditions proposed to resolve concerns within 15 calendar days of the FAX.</i> <i>The Corps will determine if these conditions are appropriate for inclusion on the GP authorization. For the wetlands area west of Timberline and North of Alpina, a full pre-discharge notification procedure shall be instituted by the Corps if work is proposed under the GPs. The Corps will FAX copies of the application and of the hydrologic analysis and habitat review to EPA, USFWS, NMFS, ADFG, ADGC, and ADEC after being provided these by the Municipality. Any concerns shall be raised within five working days of the FAX and conditions proposed to resolve concerns within 15 calendar days of the FAX. If resolution of concerns cannot be reached at that time, review of the application shall be completed under the Individual Permit process.</i>	Preservation/Developable	A/C

Site No.	1982 Site No.	Map No.	Site Description, Enforceable and Administrative Policies and Management Strategies	1982 Designation	New Designation
214	143	21	CORTINA DRIVE (2.8 acres; Private Ownership) (Scores: Hydrology = 61; Species Occurrence = 26; Social Function = 42) <i>A hydrologic analysis shall be done, and this analysis shall meet the acceptable standards of the Municipal Department of Public Works in order to prevent flooding of adjacent property, maintain groundwater recharge and flood storage, as well as both surface and subsurface cross drainage, and prevent drainage of wetlands. It shall be used in determining the placement of fill and requirements for setbacks such that surface drainage patterns are maintained.</i>	Developable	C
215 and 216	149 through 151	22	ABOVE CROW CREEK ROAD (43 acres; Public & Private Ownership) (Scores: Hydrology = 98; Habitat = 73; Species Occurrence = 32; Social Function = 59) Lies partly within Municipal park land. Provides hydrology values of flood storage and recharge to California Creek and open space functions. <i>These main functions shall be retained.</i>	Conservation	B
217	137	17	CROW CREEK ROAD (27.6 acres; Public Ownership) (Scores: Hydrology = 81; Habitat = 85; Species Occurrence = 61; Social Function = 42) <i>Drainageways and small creeks shall be maintained with a minimum 65-foot setback for flood control, water quality and moderate habitat values.</i>	Preservation Undesignated	B
217	138 and 139	18	CROW CREEK ROAD—CREEK (2.6 acres; Public Ownership) (Scores: Hydrology = 68; Habitat = 76; Species Occurrence = 50; Social Function = 44) <i>Creek associated drainageway shall be maintained. (Lies within floodplain and retention area). Additional wetland delineation may be required.</i>	Preservation Undesignated	A
218	141	21	MOOSE MEADOWS (121.5 acres; Public Ownership) (Scores: Hydrology = 111; Habitat = 105; Species Occurrence = 67; Social Function = 64) Unique habitat type within Municipality. Provides recharge and flood control for several tributaries of Glacier Creek. <i>Recreation potential high: fills for minor enhancements could be permitted, i.e. trails, parking pull-outs, but these shall be placed at fringes. Separate wetland along Aspen Road designated "C"; provides buffer to Alyeska Creek; shall be maintained with a 75-foot setback from creek.</i>	Preservation Developable	A/C
219	None	19 and 22	WINNER CREEK WETLANDS (60 acres approx.; Public Ownership) (Scores: Not Assessed) Includes wetlands in valley floor and on plateau up the Winner Creek Valley. Contains numerous ponds and tributaries. Important for flood control in lower valley and for limited fish and wildlife habitat. Some designations may change as a result of the ongoing Municipal-State Glacier-Winner Creek planning efforts currently underway. Habitat values limited to those areas adjacent to waterbodies since most sites are diminished by shorter, cooler growing seasons because of higher elevations and distance from the coast. <i>Fill actions shall be avoided or located at fringes to the maximum extent. An 85-foot setback shall be maintained from any creeks, drainageways, and waterbodies. Upper Winner Creek Valley sites are mostly riparian and in the floodplain and shall be preserved to the maximum extent.</i>	Undesignated	B

