

Table 4.2

EAGLE RIVER-EKLUTNA

WETLAND DESIGNATIONS, ENFORCEABLE AND ADMINISTRATIVE POLICIES AND MANAGEMENT STRATEGIES

Note: The Corps of Engineers issued five separate General Permits (GPs) to the Municipality that covers development projects in “C” wetlands in Anchorage. The Corps revisits these GPs every five years. The recent Anchorage GPs were issued in April 2010. Under current GP procedures, the Municipality determines whether a proposed fill project in “C” wetlands is consistent with the GP terms and conditions. These Anchorage GPs have historically been linked and applied to only “C” wetlands as designated in the AWMP. The GPs do not apply to “A” or “B” wetlands and some “C” sites are excluded. *Attachment A—Table 1* of the Anchorage GPs identifies which “C” wetland parcels are eligible for and which are excluded from the GPs. *Attachment B—Table 3* of the GPs assigns site specific restrictions and design criteria to each eligible “C” wetland. The AWMP **Table 4.2** management strategies highlight which “C” wetlands are eligible for the GPs and reference applicable site-specific restrictions and design criteria assigned to each site in the GPs. Refer to the current GPs for details and explanations of these requirements. Link: <http://www.muni.org/departments/ocpd/planning/physical/envplanning/Pages/default.aspx>. During the issuance of the current General Permits, the Corps included several previously unmapped wetlands as eligible for the GP. These are referenced as “U” wetlands in the General Permit documents. This AWMP revision includes these “U” sites and designates them as “C.”

Other previously unmapped sites not eligible for the General Permit are classified as “D” or “P” in the Management Strategies. “D” sites have been determined to be wetlands yet, have not been designated as “A,” “B,” or “C” using the Anchorage Wetlands Assessment Methodology (MOA, 1991). The “P” sites are “potential wetlands” based largely on hydric soils information and aerial photography interpretation. They have yet to be delineated as wetlands by field investigations. These **“D” (undesigned) and “P” (potential) wetlands** require a Corps of Engineers Jurisdictional Determination and wetland delineation to gain information on whether the wetland falls under the Corps’ jurisdiction and the location of the wetland boundaries. This is noted within the management strategy it applies. All acreages listed are approximate.

***(New sites now classified as “D” or “P” and former “U” sites now designated “C” are listed in blue.)**

Site #, listed in column 1 of the table, references individual wetland sites or collective groups of wetlands that are in the same geographic area and perform similar functions. These wetland sites or groups were generally assessed together and share the same or similar management strategies.

Map # in the table references map pages from the Eagle River Wetlands Atlas, 2008. The Atlas can be found on the MOA Watershed Management Services Library website under ‘maps’ at: <http://wms.geonorth.com/library/LibraryMapsWetlandsAtlas08.aspx>. The atlas may also be viewed at the Planning public counter, Municipal Planning and Development Center, 4700 Elmwood Road, Anchorage, Alaska.

Management Strategies, Enforceable and Administrative Policies: Includes for each wetland a Site Description, Acreage of wetland unit, Ownership, and “Scores,” which refer to the Anchorage Wetlands Assessment Methodology scores. (Reference Chapter 2, II. Resource Inventory, A. Background, for AWAM scoring information.)

Site #	Map # (in the Eagle River Wetlands Atlas, 2008)	Management Strategies, Enforceable and Administrative Policies: Includes for each wetland a Site Description, Acreage of wetland unit, ownership, "Scores" refer to the Anchorage Wetlands Assessment Methodology (reference Chapter 2, II. Resource Inventory, A. Background, for scoring information)	New Designation or Classification
100	3	EKLUTNA FLATS NORTH (79.41 acres; Public & Private Ownership) (Scores: Not Assessed) Presumed high habitat values given bird use; extent of fish use unknown. <i>Any proposed highway or railroad expansion shall avoid waterways and waterbodies to the maximum extent possible. A COE Jurisdictional Determination, wetlands and waterway delineation required.</i>	A
101	2, 3, 4, 5, 6	EKLUTNA FLATS: EAST SIDE OF GLENN HWY (153.87 acres; Public & Private Ownership) (Scores: Hydrology = 104; Habitat =143; Species Occurrence = 60; Social Function = 26) High habitat values with potential for enhancement <i>by enlarging ponds.</i> Hydrology connections, cross-drainage and ponds shall be preserved to the maximum extent. <i>A COE Jurisdictional Determination, wetlands and waterway delineation required.</i>	A
102	12a, 13, 13a, 14, 15, 22a, 25a, 26a	EKLUTNA RIVER, THUNDERBIRD CREEK CORRIDOR: UPSTREAM TO CHUGACH STATE PARK BOUNDARY (345.25 acres; Public & Private Ownership) (Scores: Hydrology = 72; Habitat = 88; Species Occurrence = 43; Social Function = 25) Hydric soil areas are mapped as "P" (potential wetlands) throughout each valley. Values for flood attenuation, habitat and open space/aesthetics. <i>COE Jurisdictional Determination and wetland delineation required. Verify with ADFG-Habitat regarding extent of anadromous fish use. Stream and river setbacks are 100 feet where anadromous, 65 feet for non-anadromous streams, and 25 feet for drainageways.</i> Habitat values and enhancement potential for lower Eklutna River. "C" site on map #13, east of the Eklutna River, Thunderbird Creek confluence, is eligible for the General Permit. GP Site Restrictions and Design Criteria: <i>Construction timing window; Wetland Delineation; Identify surface water features; BMPs for local flooding and stormwater controls required.</i>	C/P
102A	23a, 24a	BARBARA LAKE: MID- EKLUTNA VALLEY (605.93 acres; Private Ownership) (Scores: Not Assessed) "A" wetlands: Map #23a: previously unmapped wetland in NW corner of cleared field (Knox, Tract B3A) is preserved by permit action (Eklutna River 2). Hydric soils mapped as "P" (potential wetlands) throughout these valleys. <i>COE Jurisdictional Determination and wetland delineation required. For "B" and "P" wetlands: Identified headwater springs and streams require 85-foot setbacks. Maintain core wet meadows and waterways to the maximum extent practicable.</i>	A/B/P
102B	11	EKLUTNA RIVER MOUTH (Private Ownership) (Scores: Not Assessed) Gravel Ponds south of Eklutna River mouth are partially intertidal. Further investigation is required to determine extent of freshwater influence. <i>COE Jurisdictional Determination and wetlands delineation required to properly map any freshwater wetlands and ponds.</i> Habitat enhancement potential. <i>Eklutna River requires 100-foot setback to protect anadromous fish.</i> Functions for flood attenuation, and habitat values.	Open Water
102C	23a, 33a, 34a, 35a, 41a, 42a	UPPER EKLUTNA VALLEY NORTH (202 acres; Public, Private Ownership) (Scores: Hydrology =93; Habitat =84; Species Occurrence =35; Social Function =15) Private in-holdings outside of Chugach State Park; (Pioneer Estates, Chugach Acres Subdivision). Wetlands contain a significant plant species: <i>Pinguicula vulgaris</i> ; considered rare for the Municipality. Protect wet meadows, streams and drainageways with minimum 65-foot setback. <i>Requires COE Jurisdictional Determination, wetland and waterways delineation.</i> Values for flood attenuation, water quality and habitat.	B

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102D	24a, 25a, 32a, 33a, 34a, 40a, 41a, 42a, 43a	UPPER EKLUTNA VALLEY SOUTH (1218.2 acres; Public Ownership)(Scores: Hydrology = 106; Habitat = 136; Species Occurrence = 43; Social Function =64) Hydric soils previously mapped as "P" potential wetlands along south side of Eklutna River from the lake, westward to Map #25a. Lies within Chugach State Park. <i>Requires COE Jurisdictional Determination and wetlands/stream delineations.</i>	B
103	12	THUNDERBIRD HEIGHTS SUBDIVISION (9.59 acres; Private Ownership) (Scores: Hydrology = 81; Habitat = 74; Species Occurrence = 15; Social Function = 21) <i>COE Jurisdictional Determination and wetland delineation required. Maintain a 65-foot setback along the unnamed stream in southern site, which shall be treated as "A" wetlands.</i> Remaining "C" wetlands: General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required. Requires 25-foot setback from drainageways.</i>	C
103A	12	THUNDERBIRD HEIGHTS (0.34 acre; Private Ownership) (Scores: Hydrology = 79; Habitat = 64; Species Occurrence = 23; Social Function = 21) <i>COE Jurisdictional Determination and wetland delineation required. Pond on the Old Glenn Highway functions for stormwater and flood attenuation, and water quality. Inflow to pond, if identified as a stream, shall be maintained with 65-foot setback; 25-foot setback if a drainageway.</i>	B
104	12, 16, 17	THUNDERBIRD FALLS SUBDIVISION (Lower valley: 21.37 acres, Upper Thunderbird Creek valley: 133.52 acres; Private and Public Ownership) (Scores: Hydrology = 75; Habitat = 53; Species Occurrence = 23; Social Function = 28). Glenn Hwy to Paradis Lane, North of Edmonds Lake: (8.5 acres; Public & Private Ownership) (Scores: Hydrology = 86; Habitat = 82; Species Occurrence = 30; Social Function = 26). Values for flood attenuation and water quality. Habitat values not fully known. <i>"P" (potential wetlands) requires COE Jurisdictional Determination and wetland delineation. Includes 133.52 acres in upper Thunderbird Creek valley.</i> <i>"C" wetlands are General Permit applicable.</i> GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required. Maintain a 25-foot transitional buffer between GP permitted development and "A" wetlands. Maintain a 65-foot setback from unnamed stream.</i>	C/P
104A	11, 17	SE SECTION 26 North of Edmonds Lake, East of Glenn Hwy: (21.46 acres; Private Ownership) (Scores: Hydrology = 76; Habitat = 50; Species Occurrence = 17; Social Function = 22). <i>Includes "P" (potential wetlands) wetlands along unnamed stream originating in Thunderbird Falls Subdivision (unit 104). For "B" and "P" wetlands: COE Jurisdictional Determination, wetland delineation and verification of waterways by MOA-WMS required. Unnamed stream requires a 65-foot setback. Values for stormwater attenuation and water quality.</i>	B/P

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105	10, 11, 17	WEST OF GLENN HIGHWAY - NORTH OF EDMONDS CREEK (47.24 acres; Private Ownership) (Scores: Hydrology = 96; Habitat = 96; Species Occurrence = 56; Social Function = 50) <i>COE Jurisdictional Determination and wetland delineation required. Contains unnamed stream and lower section of Edmonds Creek; maintain a 65-foot setback from unnamed stream (see unit # 108 regarding Edmonds Creek). Verify with ADFG-Habitat for presence of anadromous fish; if present, 100-foot setback from streams is warranted. 25-foot setback required from drainageways and ephemeral channels.</i>	B
106	17, 18	MIRROR CREEK (37.46 acres; Private Ownership) (Scores: Hydrology = 70; Habitat = 76; Species Occurrence = 48; Social Function = 35) <i>Verify with ADFG-Habitat for presence of anadromous fish; 100-foot setback is warranted if present; if not, a 65-foot setback required. Proposed stream crossings shall require bridges or arched culverts to protect habitat. Values for flood attenuation, water quality and habitat.</i> <i>"P" (potential wetlands) requires COE Jurisdictional Determination and wetland delineation.</i>	B/P
106	18, 19	NORTH OF RANKIN ROAD, SOUTH OF MIRROR CREEK (42.73 acres; Private Ownership) (Scores: Hydrology = 80; Habitat = 53; Species Occurrence = 21; Social Function = 28). <i>COE Jurisdictional Determination required. General Permit applicable. GP Site Restrictions and Design Criteria: Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i> <i>"P" – additional wetlands extend north from previously mapped unit; contains tributary to Edmonds Creek requiring an 85-foot setback.</i>	C/P
107	17, 18	WEST OF GLENN HIGHWAY - SOUTH OF EDMONDS LAKE (11.69 acres; Private Ownership) (Scores: Hydrology = 59; Habitat = 41; Species Occurrence = 23; Social Function = 47) <i>Unmapped channels are located within the vicinity of Mirror Lake Middle School trails. Requires COE Jurisdictional Determination, wetland delineation and verification of waterways by MOA-WMS. Maintain a 65-foot setback for streams, 25-foot setbacks for drainageways. Values for stormwater and flood attenuation, water quality.</i> <i>"C" wetlands: General Permit applicable. GP Site Restrictions and Design Criteria: Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i>	B/C
108	17	EDMONDS CREEK (11.12 acres; Public & Private Ownership) (Scores: Hydrology = 86; Habitat = 88; Species Occurrence = 48; Social Function = 57) <i>Unique stream feature and hyporheic zone, the interface between the stream channel and surrounding groundwater area, should be protected to the maximum extent possible. Require minimum buffer zone extending 100 feet out from edge of wetlands and 300 feet from stream outward to protect the hyporheic zone. Values for flood attenuation, water quality and habitat.</i>	A
108A	16	EAST OF EDMONDS LAKE (4.3 acres; Private Ownership) (Scores: Hydrology = 87; Habitat = 73; Species Occurrence = 29; Social Function = 49) <i>"A" wetlands include pond to east of Edmonds Lake connected via culvert/waterway; fringe wetlands present on pond and Edmonds lakeshore. Preserve pond and fringe wetlands to the maximum extent practicable. Values for stormwater and flood attenuation, water quality, and habitat. ADFG stocks the lake with Rainbow Trout. "D" wetlands NE of Edmonds Lake.</i>	Open Water/ A/D

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109	17, 26	MIRROR LAKE AND FRINGE WETLANDS (Public & Private Ownership) (Scores: Hydrology = 116; Habitat = 150; Species Occurrence = 123; Social Function = 82). Fringe wetlands on Mirror Lake shoreline and open water assessed together. <i>COE Jurisdictional Delineation required. Fringe wetlands shall be preserved to the maximum extent possible. Water dependent uses could be constructed with minimal impacts, i.e., docks on pilings.</i> ADFG stocks the lake with Chinook Salmon and Rainbow Trout.	Open Water
109	25, 26	MIRROR LAKE, SOUTH (51.43 acres; Private Ownership) (Scores: Hydrology = 113; Habitat = 101; Species Occurrence = 18; Social Function = 34) General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Wetland Delineation; Identify surface water features; BMPs for local flooding and stormwater controls required. Waterways require mapping by MOA-WMS. Maintain a minimum 65-foot setback along the waterway (between lots 22 and 23) and pond south of Mirror Lake Drive. 25-foot setback required from drainageways. Maintain a 65-foot setback from Mirror Lake. Lakefront structures on piles may be permitted under the GPs in the 65-foot setback.</i>	C
109A	26	SOUTHEAST OF BEAR MOUNTAIN VIEW CIRCLE AND LAKESHORE DRIVE (2.57 acres; Private Ownership) (Scores: Hydrology = 86; Habitat = 67; Species Occurrence = 18; Social Function = 34) Values for stormwater attenuation, habitat and open space/aesthetics. Locally significant plants require further investigation. Wet meadow should be retained to the maximum extent possible. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features and prevention of dewatering adjacent wetlands; BMPs for local flooding and stormwater controls required; compensatory mitigation shall be based on field determination of Relative Ecological Value (REV). A 65-foot setback shall be maintained around the seasonal pond. Requires a 25-foot setback from drainageways.</i>	C
110	17, 26	MIRROR LAKE / EDMONDS LAKE PARK (35.73 acres; Public Ownership) (Scores: Hydrology = 99; Habitat = 89; Species Occurrence = 91; Social Function = 80) Includes wetland lobes adjacent to and extending from each lake. A master park plan for the area should identify allowed uses, appropriate activities and those wetland areas to be protected for water quality maintenance to the maximum extent possible. Any major park amenity development shall avoid waterways and ponded areas with minimum 65-foot setbacks.	A
111	26, 27	MEADOW LAKE (8.32 acres; Private Ownership) (Scores: Hydrology = 113; Habitat = 103; Species Occurrence = 44; Social Function = 62) <i>Lake and associated wetland is designated as "A"; intent is to preserve the lake and wetlands to the maximum extent practicable. Minor lake access structures could be allowed on pilings.</i> Values for stormwater attenuation, water quality, habitat and open space/aesthetics. <i>Requires COE Jurisdictional Determination.</i>	A

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112	27	<p>PETERS GATE SUBDIVISION: THREE SITES (34.38 acres; Private Ownership) (Scores: Hydrology = 93; Habitat = 93; Species Occurrence = 18; Social Function = 36)</p> <p><i>Tributary to Peters Creek requires an 85-foot setback, to be treated as "A" wetlands. Maintain drainageways with minimum 25-foot setback. Intent is to maintain wet meadows, drainageways and streams to the maximum extent practicable. Values for stormwater and flood attenuation, water quality, and open space/aesthetics. "C" wetland remaining outside setbacks is General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Wetland Delineation; Identify surface water features; BMPs for local flooding and stormwater controls required.</i></i></p> <p><i>"P" (potential wetlands) site extends east from existing "C" mapped wetlands. COE Jurisdictional Determination and wetlands delineation is required. MOA-WMS stream survey required.</i></p>	C/P
113	25	<p>MIRROR DRIVE (5.37 acres; Private Ownership) (Scores: Hydrology = 78; Habitat = 47; Species Occurrence = 27; Social Function = 39)</p> <p><i>COE Jurisdictional Determination required. Use of cluster development could be incorporated in plats to avoid seasonal pond and to identify and avoid drainages. Values for stormwater and flood attenuation, water quality, and open space/aesthetics.</i></p> <p>General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Wetland Delineation; Identify surface water features; BMPs for local flooding and stormwater controls required; south of Mirror Drive: compensatory mitigation shall be based on field determination of Relative Ecological Value (REV)</i></p>	C
114	24, 25	<p>THE TABLELANDS/GLENN VIEW ESTATES (10.36 acres; Private Ownership) (Scores: Hydrology = 61; Habitat = 35; Species Occurrence = 18; Social Function = 20)</p> <p>Values for stormwater attenuation, water quality and open space/aesthetics. <i>COE Jurisdictional Determination required. "A" wetlands within wooded ravines are preserved as open space by permit #: Peters Creek 03-A. Remaining "C" wetlands are General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i></i></p>	A/C
114	18 and 25	<p>NORTHEAST OF WHISPERING BIRCH DRIVE, WEST OF WATER LINE (11.66 acres; Private Ownership) (Scores: Hydrology = 66; Habitat = 67; Species Occurrence = 22; Social Function = 20)</p> <p>Topographic low point conveys stormdrain and flood flows through area = open space. <i>Drainageways through the site shall be maintained; minimum 25-foot setback. Values for stormwater and flood attenuation, water quality. 3 "C" sites, General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i></i></p>	A/C
115	24, 28, 29, 53a, 54a, 74a, 75a, 76a	<p>PETERS CREEK AND LITTLE PETERS CREEK (98.47 acres approx.; Public & Private Ownership) (Scores: Not Assessed)</p> <p>Includes riparian wetlands along creek. <i>COE Jurisdictional Determination required for wetland site NE of Knik Vista and Glacier Vista roads (map 24) and "P" (potential wetlands, map 54a). Intent is to preserve riparian wetlands to the maximum extent possible.</i></p>	A,P

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116	32, 33, 34, 35	BEACH LAKE COMPLEX (318.27 acres approx.; Public & Private Ownership) (Scores: Not Assessed) <i>Municipal parkland shall be preserved to the maximum extent possible. Minor park and trail amenities and road access could be allowed if avoiding wet meadows, waterbodies and waterways. COE Jurisdictional Determination and wetland delineation required for "P" (potential wetlands) areas. MOA-WMS stream survey needed.</i> Reference <i>Beach Lake Regional Park Master Plan</i> , April, 2010, regarding land use recommendations.	A/B/P
117	30, 35 36	MINK CREEK: Glenn Hwy (84.5 acres; Public & Private Ownership) (Scores: Hydrology = 118; Habitat = 93; Species Occurrence = 36; Social Function = 42) South Birchwood (84.76 acres; Private Ownership) (Scores: Hydrology = 110; Habitat = 151; Species Occurrence = 54; Social Function = 40) Values for stormwater and flood attenuation, water quality and wildlife habitat. "A" wetland designation for stream corridor; <i>maintain 100-foot setback to protect anadromous fish.</i> "B" wetland designation for wetlands outside of main stream corridor. Retain ponded areas and drainage corridors; outer edges of wetlands could be potentially developed. <i>A 25-foot buffer shall be maintained from development within the "B" wetlands and the "A" wetlands.</i> "C" wetland designation for forested wetlands north of Mink Lake. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; wetland delineation; Identify surface water features; address dewatering of adjacent wetlands; BMPs for local flooding and stormwater controls required. Maintain 200-foot setback from Mink Lake; 25-foot buffer from fill authorized by GP and "A" wetlands.</i>	A/B/C
117A	35	SOUTH BIRCHWOOD AT RICHNER (3.31 acres; Private Ownership) (Scores: Hydrology = 74; Habitat = 48; Species Occurrence = 18; Social Function = 36) Values for stormwater and flood attenuation, water quality. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; wetland delineation; Identify surface water features; BMPs for local flooding and stormwater controls required.</i>	C
118	39	OLD GLENN HIGHWAY: NORTH OF MINK CREEK (11.67 acres; Private Ownership) (Scores: Hydrology = 66; Habitat = 45; Species Occurrence = 18; Social Function = 30) COE Jurisdictional Determination required. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; prevent dewatering of adjacent wetlands; BMPs for local flooding and stormwater controls required. Maintain 100-foot setback from Mink Creek to protect anadromous fish.</i>	C
119	37, 38, 39	OLD GLENN HIGHWAY: SE CANYON RD (25.54 acres; Public & Private Ownership) (Scores: Hydrology = 89; Habitat = 89; Species Occurrence = 24; Social Function = 51) "A" wetlands includes lake within canyon and headwaters of Mink Creek. <i>Maintain 85-foot setback from Mink Creek.</i> "C" wetland: located north of "A" wetlands, south of former gravel pit; Amonson to Skyview Rd. COE Jurisdictional Determination required. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i>	A/C/Open Water

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120	35, 36, 37, 39, 40	MINK AND PARKS CREEKS – OLD GLENN TO GLENN HIGHWAY (73.60 acres; Private Ownership) (Scores: Hydrology = 95; Habitat = 89; Species Occurrence = 18; Social Function = 34) <i>Setbacks of 65 feet required from streams unless ADFG-Habitat information indicated anadromous fish use, then 100-foot setback is warranted. Riparian wetlands are classified "A" and shall remain undisturbed to the maximum extent possible, to protect flood attenuation, water quality and fish habitat functions.</i> "C" wetlands: General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; wetland delineation; BMPs for local flooding and stormwater controls required. Maintain 100-foot setback from streams, 25-foot buffer from "A" wetlands.</i> <i>"P" (potential) wetlands located near SW Glenn Hwy and North Birchwood Loop Road. Requires COE Jurisdictional Determination and wetland delineation.</i>	A/C/P
121	40	PARKS CREEK: WEST OF GLENN HWY TO ALASKA RAILROAD; NORTH OF BEACH LAKE ROAD (includes site to the north of Chugiak High School) (52.57 acres; Public & Private Ownership) (Scores: Hydrology = 104; Habitat = 123; Species Occurrence = 42; Social Function = 50) "A" wetlands south of K and R Rd. Values for stormwater and flood attenuation, water quality and habitat. <i>Maintain 100-foot setback from stream to protect anadromous fish resources.</i> "C" wetlands constitute remainder of unit. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required. Maintain a 100-foot setback along Parks Creek. A 65-foot setback shall be maintained along the tributary of Parks Creek in the southern lobe of the beaver pond site. 25-foot setback from drainageways. 25-foot buffer required from any development authorized under the GP and "A" wetlands. COE Jurisdictional Determination and wetland delineation required for "D" sites. ADFG determination for extent of anadromous fish habitat required.</i>	A/C/D
121	40, 41	BEACH LAKE PARK: SOUTH BIRCHWOOD TO RAILROAD, SOUTH OF BEACH LAKE ROAD (assessed with previous site #121) (45.26 acres; Public Ownership) <i>"D" wetlands: COE Jurisdictional Determination, wetland and waterbody delineation required. Unmapped drainageways with connectivity to Fire Creek; maintain 25-foot setback.</i> Values for stormwater and flood attenuation, water quality, habitat, open space/aesthetics and recreation. Reference <i>Beach Lake Regional Park Master Plan</i> , April, 2010, regarding land use recommendations. "C" wetlands: General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; prevent dewatering of adjacent wetlands; BMPs for local flooding and stormwater controls required. Maintain 100-foot setback from Parks Creek to protect anadromous fish, 65-foot from other channels, 25-foot from drainageways.</i>	C/D

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122	34, 35, 40, 41, 45, 46	LOWER FIRE CREEK / FIRE CREEK COMPLEX DOWNSTREAM OF RAILROAD (496 acres approx.; Public and Private Ownership) (Partial Area Assessment Scores: Hydrology = 107; Habitat = 109; Species Occurrence = 78; Social Function = 41) Private and public land including portions of Beach Lake Park. Values for stormwater and flood attenuation, water quality, habitat, open space/aesthetics and recreation. Private lands at creek mouth controlled by the 1979 Agreement of Compromise and Settlement between the Municipality and Eklutna, Inc. <i>Under this agreement, the 100-year floodplain is to be preserved except for trails. Permitted development outside the floodplain requires a 25-foot buffer from "A" wetlands. Maintain a 100-foot setback from Fire Creek to protect anadromous fish resources.</i> Reference <i>Beach Lake Regional Park Master Plan</i> , April, 2010 regarding land use recommendations.	A/B
123	34, 41	PSALM LAKE COMPLEX (4.94 acres; Public Ownership) (Scores: Not Assessed) Includes the lacustrine wetland fringe of Psalm Lake. <i>Site shall be preserved to the maximum extent practicable.</i> Values for habitat, open space/aesthetics and recreation.	A
124	33, 41, 42, 43, 44, 45, 51, 77a, 78a, 87a	MILITARY LANDS (271.5 acres; Public Ownership) (Scores: Not Assessed) Shall be preserved and managed via EO #11990 for military lands.	A
125	46	NORTH AND SOUTH OF PIONEER DRIVE: TWO SITES (3.2 acres; Private Ownership) (Scores: Hydrology = 61; Habitat = 36; Species Occurrence = 18; Social Function = 48) <i>COE Jurisdictional Determination required. General Permit applicable.</i> GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required. Maintain a 25-foot setback from drainageways.</i>	C
125	46	NW TERRACE LANE AT JAMES WAY (42 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; protect drainageways into and out of the wetlands with a 25-foot setback.</i> Values for stormwater attenuation, water quality, habitat and open space/ aesthetics. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i>	C
125	46	ALMDALE: 2 SITES (1.68 acres; Private Ownership) (not assessed) <i>Ephemeral drainageway exits from larger wetland through these sites, which was not mapped on the 2008 Wetlands Atlas. Maintain a minimum 25-foot setback.</i> Values for stormwater and flood attenuation, water quality. <i>Requires COE Jurisdictional Determination.</i>	D

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126	40, 47	<p><u>NORTHEAST INTERSECTION OF SOUTH BIRCHWOOD/GLENN HIGHWAY</u> (19.10 acres; Public & Private Ownership) (Scores: Hydrology = 96; Habitat = 79; Species Occurrence = 32; Social Function = 39) "B" and "D" wetlands: <i>COE Jurisdictional Determination and wetland delineation required. MOA-WMS survey for waterbodies needed. Identified stream channels require a 65-foot setback; drainageways a 25-foot setback.</i> Values for stormwater attenuation and water quality. "C" wetlands designation for isolated southern site. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i></p>	B/C/D
127	47	<p><u>DRAINAGE INTO LOWER FIRE LAKE</u> (3.57 acres; Private Ownership) (Scores: Hydrology = 93; Habitat = 88; Species Occurrence = 24; Social Function = 61) Includes pond NE of James and Lakeridge Drive, designated as "Open Water." <i>Requires COE Jurisdictional Determination and wetland delineation. Maintain connectivity to Lower Fire Lake with minimum 25-foot setback from drainageways.</i> Values for stormwater attenuation, water quality and open space/aesthetics.</p>	A/Open Water
127	47	<p><u>DARBY ROAD</u> (17.48 acres; Private Ownership) (Scores: Hydrology = 76; Habitat = 64; Species Occurrence = 18; Social Function = 59) <i>COE wetland delineation required to define boundaries. Contains stream headwaters; maintain with minimum 85-foot setback. Intent is to preserve these headwater wetlands to the maximum extent practicable.</i> "C" wetlands are General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i> <i>"D" wetlands at NW Monastery Drive and Old Glenn Hwy. Requires COE Jurisdictional Determination and wetland delineation.</i></p>	C/D
128	46, 49	<p><u>LOWER FIRE LAKE</u> (including Fire Creek) (63.65 acres; Public & Private Ownership) (Scores: Hydrology = 130; Habitat = 145; Species Occurrence = 117; Social Function = 64) High value habitat, stormwater and flood attenuation, water quality and recreation values. <i>Where the wetlands fringe is on the lake edge, setbacks shall be a minimum of 65 feet, extending from OHW inland to the extent of the wetlands or to 65 feet, whichever comes first. Fill into the lake and stream should be avoided. Intent is to preserve the remaining lacustrine wetlands to the maximum extent possible while allowing minor amenities such as docks on pilings.</i></p>	A
129	47, 48, 49	<p><u>UPPER FIRE LAKE/CREEK</u> (1.91 acres approx.; Public & Private Ownership) (Scores: Hydrology = 112; Habitat = 84; Species Occurrence = 29; Social Function = 37) Includes lake fringe and stream's riparian wetland corridor. Important for fish habitat, water quality, flood and stormwater attenuation within the watershed. Lower Fire Lakes dam acts as a fish passage barrier. <i>Should this situation change and anadromous fish are allowed upstream, a 100-foot setback would be warranted from Fire Creek, otherwise 65 feet should be used.</i> The culvert under the Old Glenn Hwy allows fish passage between Upper and Lower Fire Lake. <i>"D" wetlands located on Lot 95, north of the lake. Henkins Subdivision, tracts 1 and 2 contain a tributary to Fire Creek and riparian wetlands; a minimum 25-foot setback is required.</i></p>	A/D

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130	45, 49, 50	<p>MIDDLE FIRE CREEK (AND CAROL CREEK CONFLUENCE) (Glenn Highway to Alaska Railroad) (130 acres approx.; Private Ownership) (Scores: Hydrology = 87; Habitat = 112; Species Occurrence = 90; Social Function = 40)</p> <p>Values for stormwater and flood attenuation, water quality, fish habitat, open space/aesthetics and recreation. "A" wetlands to include major portions of the 100-year floodplain; <i>maintain via a 100-foot setback on each side of creek. Map #49, wetland includes Carol Creek which requires a 100-foot setback to protect anadromous fish. Beaver ponds shall be preserved to maximum extent practicable.</i></p> <p>"B" wetlands within the area where Site #136 connects to Fire Creek corridor (Map 50); <i>retain the hydrologic connectivity between these wetland complexes.</i></p> <p>Remaining outer edge of wetlands are designated "C." General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; wetland delineation; Identify surface water features; prevent dewatering of adjacent wetlands; BMPs for local flooding and stormwater controls required. A setback of at least 100 feet shall be maintained along the creek to protect anadromous 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></p>	A/B/C
131	44, 45, 50 and 51	<p>CLUNIE LAKE COMPLEX (231.94 acres; Public and Private Ownership) (Scores: Hydrology = 127; Habitat = 177; Species Occurrence = 127; Social Function = 48)</p> <p>Values for stormwater and flood attenuation, water quality, fish habitat, open space/aesthetics and recreation. <i>Military lands shall be preserved and managed via EO #11990. Setbacks of 100 feet from waterbodies and waterways should be maintained. Any development activity should avoid filling wet meadows and drainageways. ADFG stocks the lake with Chinook Salmon, Arctic Char, Lake and Rainbow Trout (2011 data).</i></p>	A
132 and 133	50, 51	<p>WEST FIRE CREEK COMPLEX (58.62 acres approx.; Public & Private Ownership) (Scores: Not Assessed)</p> <p><i>Retain hydrologic connectivity between this wetland and unit #130.</i> Values for stormwater and flood attenuation, water quality, fish habitat, open space/aesthetics and recreation.</p> <p>"C" includes wetlands on outer edge of Fire Creek complex. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; wetland delineation; Identify surface water features; BMPs for local flooding and stormwater controls required. Maintain a 15-foot buffer between developments authorized under the GP and adjacent "B" wetlands. Hydrological connections in wetlands with streams and drainages shall be delineated and retained.</i></p> <p><i>"D" sites require COE Jurisdictional Determination, wetlands and stream delineation.</i></p>	C/D
134	49	<p>FIRE CREEK: EAST OF GLENN HIGHWAY (8.41 acres; Private Ownership) (Scores: Hydrology = 85; Habitat = 90; Species Occurrence = 48; Social Function = 47)</p> <p>Values for stormwater and flood attenuation, water quality, and habitat. <i>A 75-foot stream setback from Fire Creek is preserved by permit #POA-2001-1031 and 2001-771. The wetlands within Lot 1 immediately downstream of Lower Fire Lake Dam are preserved by CE (HLB) as mitigation for permit #POA-2004-559-D. Remaining "A" wetlands: <i>Maintain a 100-foot setback along Fire Creek due to its anadromous fish resources.</i> Remaining wetlands are within designated non-development tracts.</i></p>	A

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135	48, 49, 54	UPPER CAROL CREEK (24.78 acres approx.; Public Ownership) (Scores: Hydrology = 97; Habitat = 90; Species Occurrence = 33; Social Function = 68) Includes "D" site on tributary channel, north of North Juanita Loop Rd. Values for stormwater and flood attenuation, water quality, and habitat. <i>Contains main channel and numerous feeder springs and tributaries which shall be avoided using 65-foot setbacks, when wetlands are adjacent to stream channel. COE Jurisdictional Determination and wetland delineation required.</i>	B/D
135	49, 54	LOWER CAROL CREEK (2.71 acres; Private Ownership) (Scores: Hydrology = 102; Habitat = 82; Species Occurrence = 48; Social Function = 51) West of Old Glenn Hwy. Values for stormwater and flood attenuation, water quality and habitat. <i>Maintain 100-foot setback from stream to protect anadromous fish.</i>	A
136	50, 53	SOUTHEAST END OF POWDER RESERVE COMPLEX (123.5 acres approx.; Public & Private Ownership) (Scores: Not Assessed) Includes main corridor of wetlands between Eagle River Loop Creek (aka Clunie Creek) and Fire Creek. "P" (potential wetlands) requires COE Jurisdictional Determination and wetland delineation. Further investigation of the wetland's surface and sub-surface hydrologic connection to Eagle River Loop Creek is warranted. Values for stormwater and flood attenuation, water quality, open space/aesthetics and habitat. General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required. Maintain 65-foot setback from Eagle River Loop Creek (aka Clunie Creek); avoid filling wet meadows, patterned ground wetlands, ponds and drainageways.</i>	B/C/P
137	53, 54	SCHROEDER SUBDIVISION PONDS (4.04 acres; Private Ownership) (Scores: Hydrology = 72; Habitat = 57; Species Occurrence = 18; Social Function = 52) COE Jurisdictional Determination required. "B" wetlands designation for pond and fringe wetlands on north side of Schroeder Road. <i>Pond shall be preserved to the maximum extent possible.</i> Both sites have values for stormwater attenuation and habitat. "C" wetlands are General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i>	B/C
138	54	EAGLE RIVER LOOP CREEK: BROADWATER, LUGENE AND SPRINGBROOK (2.1 acres; Private Ownership) (Scores: Hydrology = 58; Habitat = 36; Species Occurrence = 18; Social Function = 33) Includes upper Eagle River Loop Creek headwaters and pond at Broadwater Drive (mapped as wetlands). Wetlands and ponds adjacent to stream north of Eagle River Loop Road, southeast of Springbrook Drive. Floodplain values for stormwater and flood attenuation, water quality, open space/aesthetics and habitat. <i>Maintain a 65-foot setback from stream.</i> General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i>	C/Open Water
139	52, 53, 58	MILITARY LANDS (47.58 acres; Public Ownership) (Scores: Not Assessed) <i>Shall be preserved and managed via EO #11990.</i>	A

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140	58	NORTH SIDE OF EAGLE RIVER, WEST OF POPPY LANE (3.38 acres; Public/Private Ownership) (Scores: Not Assessed) <i>Military lands shall be preserved and managed via EO #11990. Most of wetland unit is a private parcel on north side of river, west of Lots 41 & 51. Includes a drainageway/tributary. Requires COE Jurisdictional Determination and wetland delineation. MOA-WMS stream survey needed.</i>	A
141	58, 61, 62	MOUTH OF MEADOW CREEK (1.93 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. "P" sites located south of Aleden Lane. Requires COE Jurisdictional Determination and wetlands delineation. Springs and headwater streams present; maintain 85-foot setback.</i>	A/P
141A	55, 89a, 90a, 92a, 93a, 94a, 95a	UPPER MEADOW CREEK (123.39 acres; Public and Private Ownership) (Scores: Not Assessed) <i>Requires COE Jurisdictional Determination and wetland delineation for "P" (potential wetlands). Assumed values as a riparian corridor for flood attenuation and water quality; and as a wildlife corridor, importance for habitat. Maintain a minimum 85-foot setback from Meadow Creek unless ADFG data concludes anadromous fish presence, then a 100-foot setback is appropriate. Intent is to preserve the stream corridor to the maximum extent possible.</i>	P
142	58 and 61	MILITARY LAND (21.3 acres; Public Ownership) (Scores: Not Assessed) <i>Shall be preserved and managed via EO #11990.</i>	A
143	62, 63, 64, 65, 68, 69, 70, 71, 72, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 133a, 137a, 138a, 139a, 157a	EAGLE RIVER GREENBELT (3286 acres; Public Ownership) (Scores: Not fully assessed) <i>The "A" wetlands are generally within the floodplain and shall be avoided to the maximum extent possible; Eagle River setbacks are 100 feet. Includes Chugach State Park greenbelt. Entire wetland complex shall be preserved to the maximum extent. Minor trail and park amenities and access roads allowed if no other practicable location possible. Size of wetland complex supports very high values for habitat, flood attenuation, open space/aesthetics and recreation. Maintain 100-foot setbacks from Eagle River and anadromous tributaries to protect anadromous fish resources and large animal movement corridors. Maintain 65-foot setbacks from tributary streams; 25-foot setbacks from drainageways. COE Jurisdictional Determination and wetland delineation required primarily for "P" (potential wetlands) sites.</i>	A/P
143A	65, 69, 70, 77	SOUTH SIDE EAGLE RIVER VALLEY, OUTSIDE THE EAGLE RIVER GREENBELT (114.6 acres approx.; Public & Private Ownership) (Scores: Not Assessed) <i>Wetlands are transitional between the river floodplain and the old river terrace; designated as "B." COE Jurisdictional Determination and wetland delineation required for "P" (potential wetlands) sites. Drainageways, channels, and ponds shall be identified and preserved via setbacks: 25 feet for drainageways and ponds, 100 feet for river and anadromous streams.</i>	B/P

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144, 144A	62, 63, 72, 73, 74	<p>SOUTH SIDE OF EAGLE RIVER (54.15 acres = Public and Private Ownership) (Scores: Assessed in 2010: Hydrology = 108; Habitat = 114; Species Occurrence = 51; Social Function = 35)</p> <p>"A" wetlands: unit #144A is within the State Park Greenbelt. Values for stormwater attenuation, water quality, habitat, open space/aesthetics, and recreation.</p> <p>"B" wetlands: parallels Eagle River Loop Road, west of the North Eagle River bridge (outside the greenbelt). <i>Maintain drainageway connectivity to Eagle River with a minimum 25-foot setback; 65-foot setback warranted if determined to be a stream. Development may be possible on the outer fringe of wetlands, provided wet meadows and drainageways are protected.</i></p> <p>"C" wetlands southeast of Eagle River Loop Road and bridge: General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required.</i></p> <p>"D" wetlands adjacent to State Park river access road, SE of bridge at Eagle River Loop Road. Requires COE Jurisdictional Determination and wetlands delineation.</p>	A/B/C/D
145	72	<p>HILAND ROAD/BERNARD/EAST STONEHILL (19.07 acres; Private Ownership) (Scores: Hydrology = 90; Habitat = 92; Species Occurrence = 18; Social Function = 43)</p> <p>"B" and "D" wetlands: <i>Cluster development should be used to preserve streams and surface drainage corridors. Values for stormwater and flood attenuation, water quality, and habitat.</i></p> <p>"C" wetlands are General Permit applicable. GP Site Restrictions and Design Criteria: <i>Construction timing window; Identify surface water features; BMPs for local flooding and stormwater controls required. COE Jurisdictional Determination and wetlands delineation required. 65-foot setbacks required from streams, 25-foot setbacks from drainageways.</i></p>	B/C/D
146	63	<p>PARKVIEW TERRACE SOUTH/EAGLE CROSSING WEST (17.26 acres approx.; Private Ownership) (Scores: Hydrology = 83; Habitat = 56; Species Occurrence = 18; Social Function = 42)</p> <p>Higher value sedge ponds, unnamed stream and drainageways. Highly urbanized area emphasizes values for stormwater attenuation, water quality, open space/aesthetics, recreation and habitat. <i>COE wetland delineation and WMS stream survey required. Maintain 100-foot setback from Eagle River, 65-foot setback from unnamed stream and 25-foot setback from drainageways.</i></p> <p>"A" wetlands: Eagle Crossing Subdivision, Tracts C-7 and C-9 are preserved by Plat #97-88. Block 9, Lots 22-28 require a wetlands vegetative buffer per Plat #97-88.</p>	A/B
147 (shown as #143 on wetlands atlas)	63, 64	<p>RAVENWOOD SCHOOL (stream headwaters to the east and west of the school) (21.38 acres; Private Ownership) (Scores: Hydrology = 105; Habitat = 84; Species Occurrence = 48; Social Function = 45)</p> <p>Two mapped streams: at Eagle River Lane and Ptarmigan Subdivision to Driftwood Bay Road. Highly urbanized area emphasizes values for stormwater attenuation, water quality, open space/aesthetics, recreation and habitat. <i>"P" (potential wetlands) requires COE Jurisdictional Determination and wetland delineation. Remaining wetlands should be preserved to the maximum extent possible. Maintain an 85-foot setback from streams and a 25-foot setback from drainageways.</i></p>	A/P

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147A	64	<u>EAGLE CROSSING SUBDIVISION</u> (44.62 acres; Private Ownership) (2010 Assessment Scores: Hydrology = 97; Habitat = 96; Species Occurrence = 16; Social Function = 53) Values for stormwater and flood attenuation, water quality, open space/aesthetics, and habitat. <i>Requires COE Jurisdictional Determination and wetlands delineation to determine accurate boundaries. Any streams delineated require an 85-foot setback; 25-foot setback from drainageways.</i>	D
148	71	<u>SOUTH SIDE OF EAGLE RIVER/HILAND ROAD</u> (66.8 acres; Private Ownership) (Scores: Hydrology = 73; Habitat = 78; Species Occurrence = 48; Social Function = 34) Includes wetlands located within and outside the greenbelt north of River Park Drive. <i>Large animal movement corridors and hydrologic connections to the greenbelt and Eagle River shall be preserved and buffered. Requires COE Jurisdictional Determination and wetland delineation. MOA-WMS stream surveys needed. If streams are delineated, 65-foot setbacks required; 25-foot setback from drainageways.</i>	B
148A	116A, 129A, 144A	<u>SOUTH FORK EAGLE RIVER VALLEY: WEST RIVER DRIVE</u> (141.52 acres; Public and Private Ownership) (Scores: Hydrology = 143; Habitat = 142; Species Occurrence = 21; Social Function = 39) <i>Requires COE Jurisdictional Determination and wetland delineation. Slope discharge with numerous springs and waterways. Stream setbacks are 85 feet, drainageways are 25 feet. Avoid activity within waterways, pools and wet meadows.</i>	P
149	64, 65, 66, 67, 68, 69, 70	<u>NORTH SIDE EAGLE RIVER VALLEY, SOUTH OF EAGLE RIVER ROAD</u> (432 acres; Private Ownership) (Scores: Hydrology = 131; Habitat = 114; Species Occurrence = 80; Social Function = 35) "A" wetlands (Map #69) includes Harmany Ranch Wetlands Mitigation Bank (a private entity shown as Roberta L Crozier Homestead on parcel maps). Preservation status of land requires appropriate buffer of minimum 100 feet to 300 feet, where appropriate, to protect integrity of the preserved wetland functions. Site to be managed and preserved in agreement with COE. "B" wetlands provide direct hydrological connection to Eagle River. <i>Stream channels, ponds and surface flows shall be maintained with setbacks as open space; e.g., PC or cluster development techniques. Identification of permanent channels and general hydrology required. COE Jurisdictional Determination and wetland delineation required. 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. Avoid streams, wet meadows, and connections to Eagle River. Verify with ADFG for location of anadromous streams. Setbacks from Eagle River and other identified anadromous fish streams are 100 feet, other streams entering Eagle River are 65 feet; and drainageways are at 25 feet.</i>	A/B