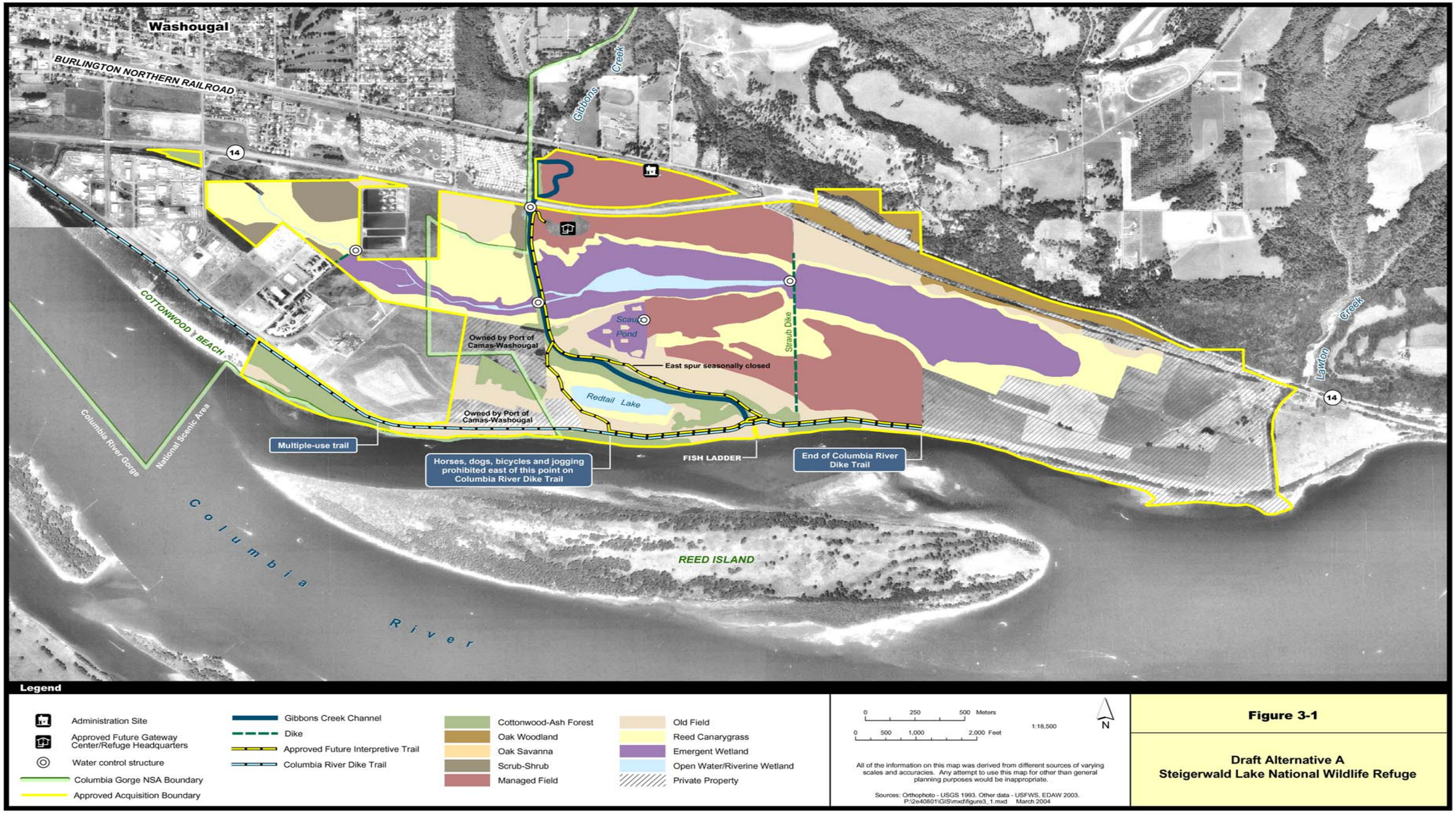
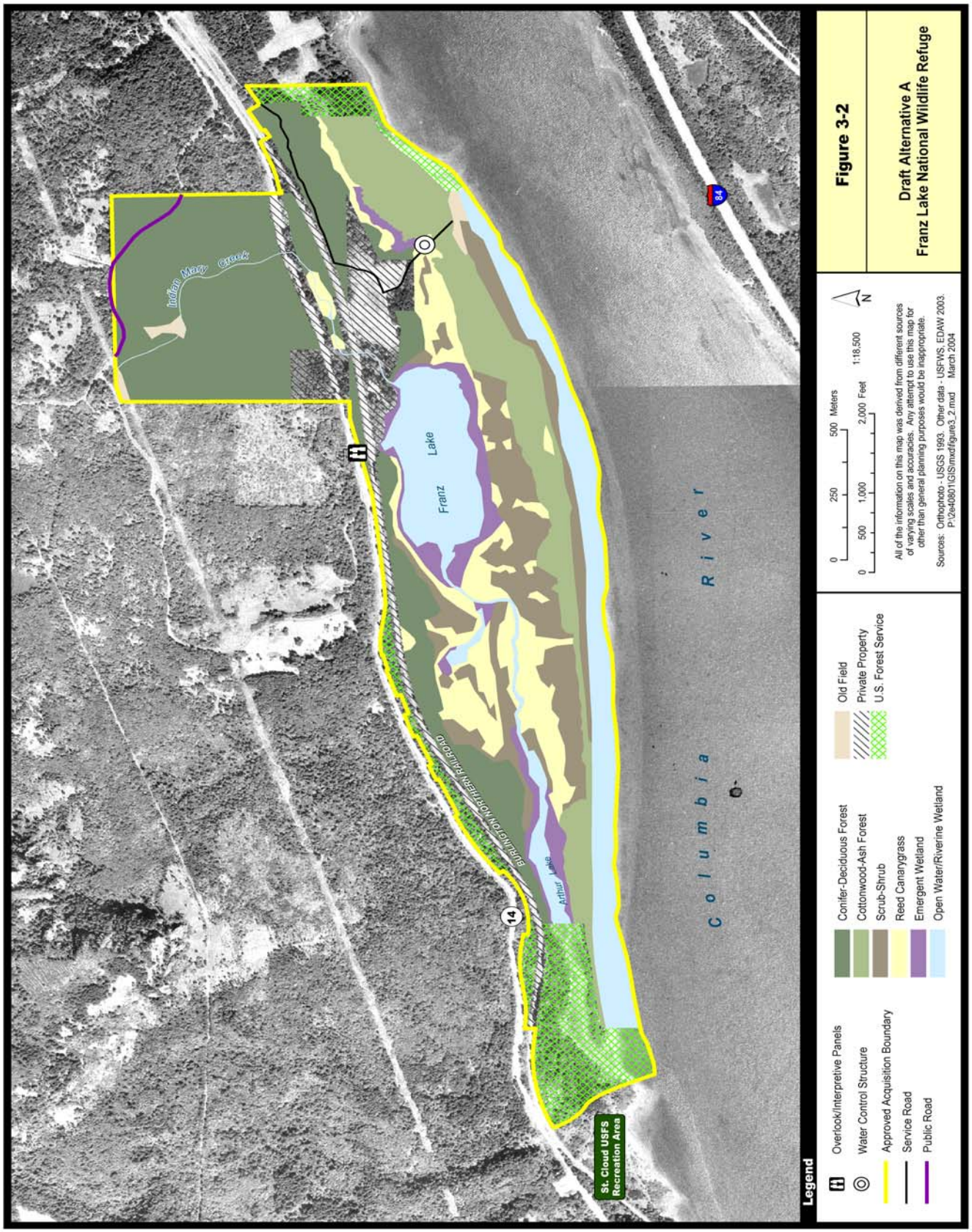
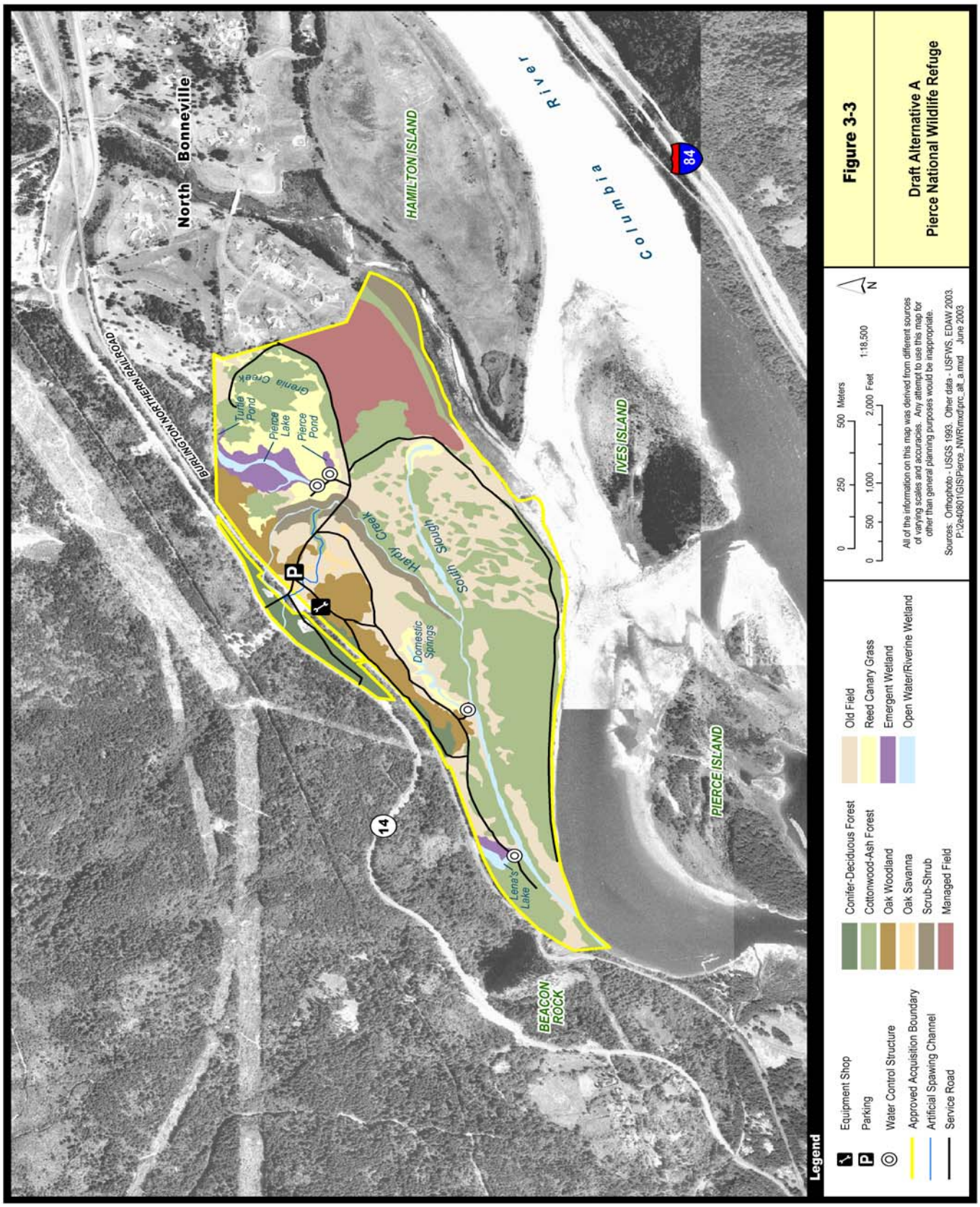


Figure 3-1

Draft Alternative A
Steigerwald Lake National Wildlife Refuge


Indian Mary Creek
Franz Lake
BURLINGTON NORTHERN RAILROAD
Arthur Lake
Columbia River
St. Cloud USFS Recreation Area
14
84
Legend
Overlook/Interpretive Panels
Water Control Structure
Approved Acquisition Boundary
Service Road
Public Road
Conifer-Deciduous Forest
Cottonwood-Ash Forest
Scrub-Shrub
Reed Canarygrass
Emergent Wetland
Open Water/Riverine Wetland
Old Field
Private Property
U.S. Forest Service
0 250 500 Meters
0 500 1,000 2,000 Feet
1:18,500
N
All of the information on this map was derived from different sources of varying scales and accuracies. Any attempt to use this map for other than general planning purposes would be inappropriate.
Sources: Orthophoto - USGS 1993. Other data - USFWS, EDAW 2003.
P:\2e408011\GIS\mxd\figure3_2.mxd March 2004
Figure 3-2
Draft Alternative A
Franz Lake National Wildlife Refuge


North Bonneville
BURLINGTON NORTHERN RAILROAD
HAMILTON ISLAND
Columbia River
IVES ISLAND
PIERCE ISLAND
BEACON ROCK
14
84
Granite Creek
Tuffle Pond
Pierce Lake
Pierce Pond
Hardy Creek
South Slough
Domestic Springs
Lena's Lake
Legend
Equipment Shop
Parking
Water Control Structure
Approved Acquisition Boundary
Artificial Spawing Channel
Service Road
Conifer-Deciduous Forest
Cottonwood-Ash Forest
Oak Woodland
Oak Savanna
Scrub-Shrub
Managed Field
Old Field
Reed Canary Grass
Emergent Wetland
Open Water/Riverine Wetland
0 250 500 Meters
0 500 1,000 2,000 Feet
1:18,500
N
All of the information on this map was derived from different sources of varying scales and accuracies. Any attempt to use this map for other than general planning purposes would be inappropriate.
Sources: Orthophoto - USGS 1993. Other data - USFWS, EDAW 2003.
P:\2e408011\GIS\Pierce_NWR\mxd\prc_alt_a.mxd June 2003
Figure 3-3
Draft Alternative A
Pierce National Wildlife Refuge

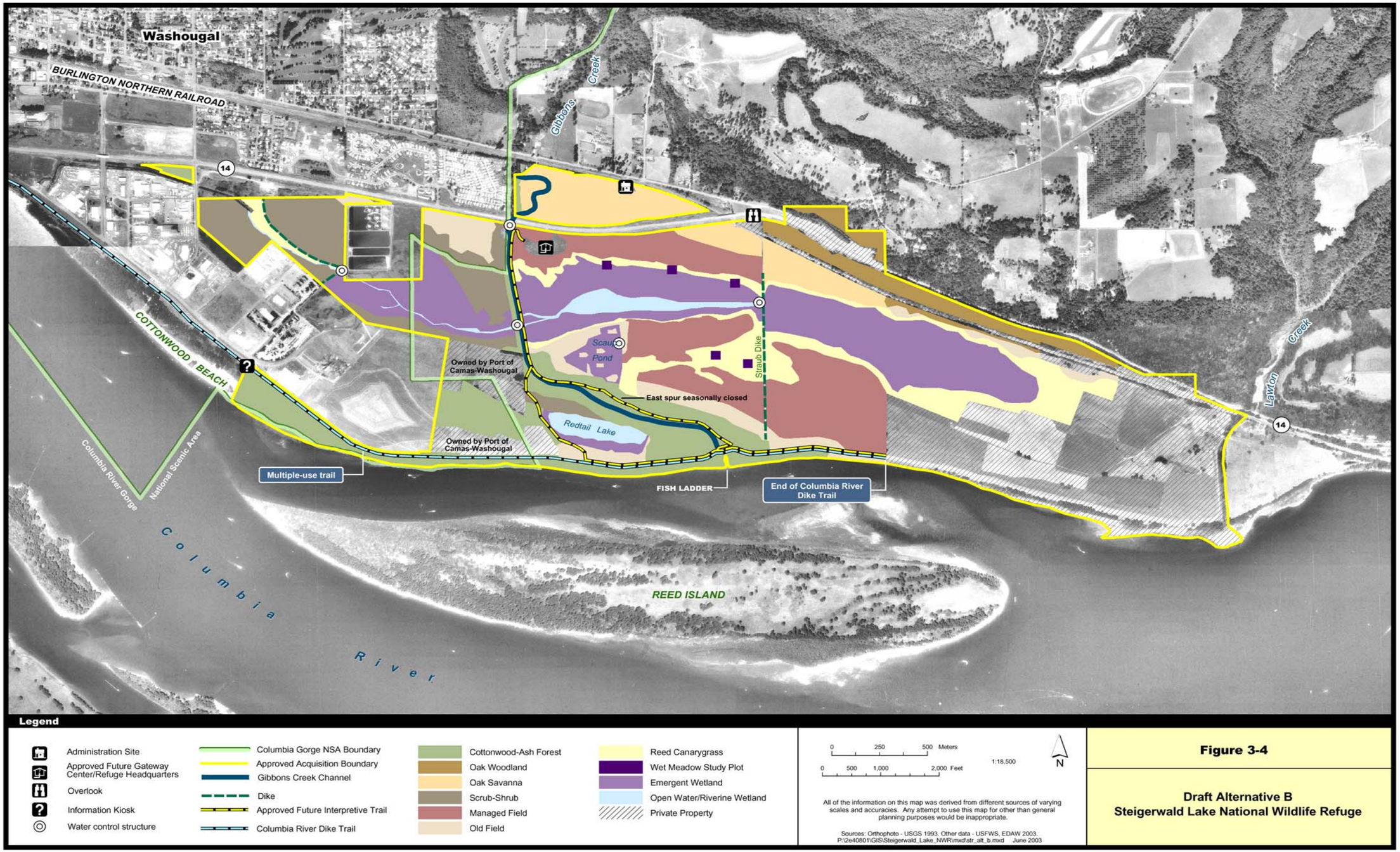
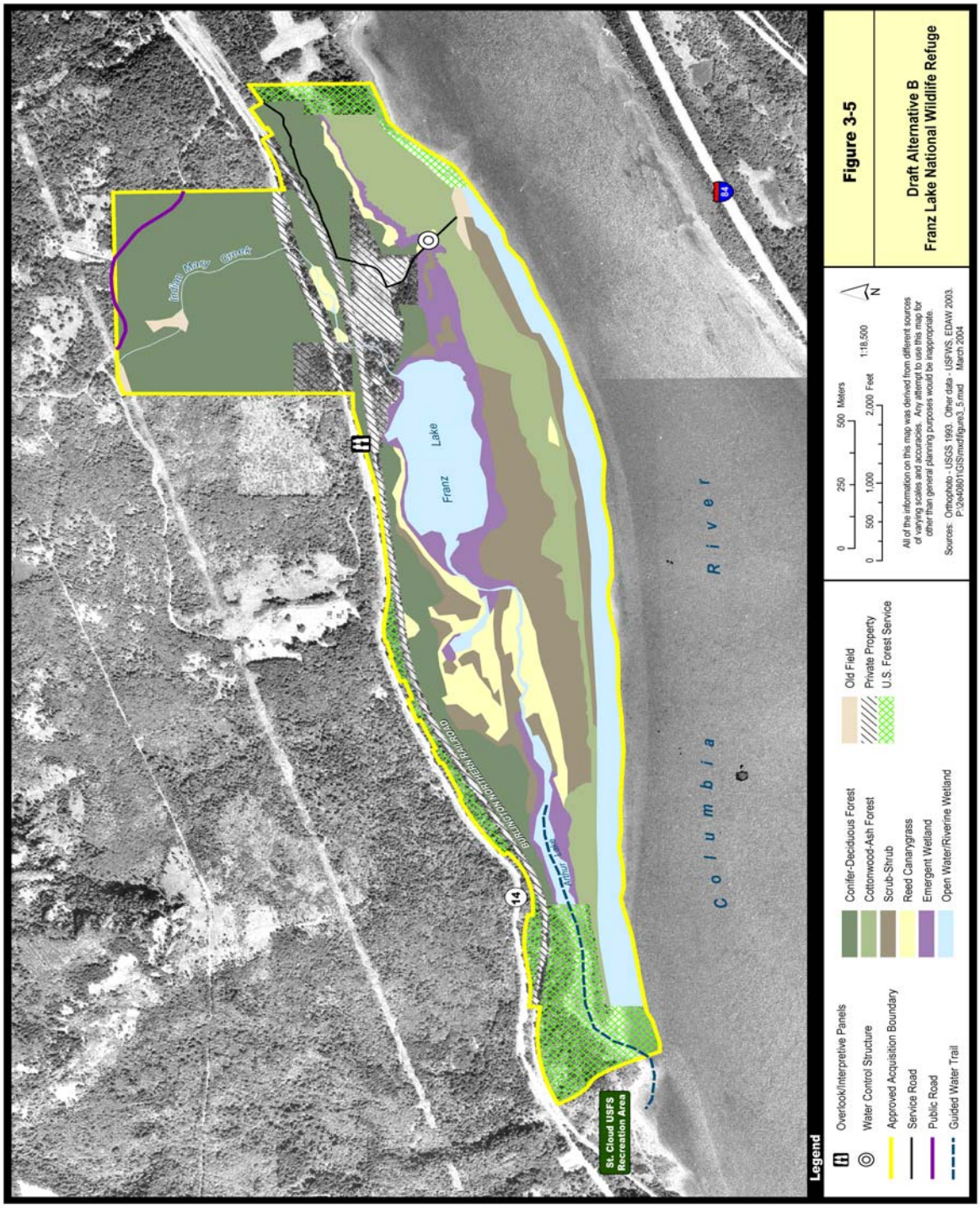


Figure 3-4

Draft Alternative B
Steigerwald Lake National Wildlife Refuge


Legend
Overlook/Interpretive Panels
Water Control Structure
Approved Acquisition Boundary
Service Road
Public Road
Guided Water Trail
Conifer-Deciduous Forest
Cottonwood-Ash Forest
Scrub-Shrub
Reed Canarygrass
Emergent Wetland
Open Water/Riverine Wetland
Old Field
Private Property
U.S. Forest Service
0 250 500 Meters
0 500 1,000 2,000 Feet
1:18,500
N
All of the information on this map was derived from different sources of varying scales and accuracies. Any attempt to use this map for other than general planning purposes would be inappropriate.
Sources: Orthophoto - USGS 1993. Other data - USFWS, EDAW 2003.
P:\2e4080\GIS\mxd\figure3_5.mxd March 2004
Figure 3-5
Draft Alternative B
Franz Lake National Wildlife Refuge
Indian Mary Creek
Franz Lake
BURLINGTON NORTHERN RAILROAD
Columbia River
St. Cloud USFS Recreation Area
14

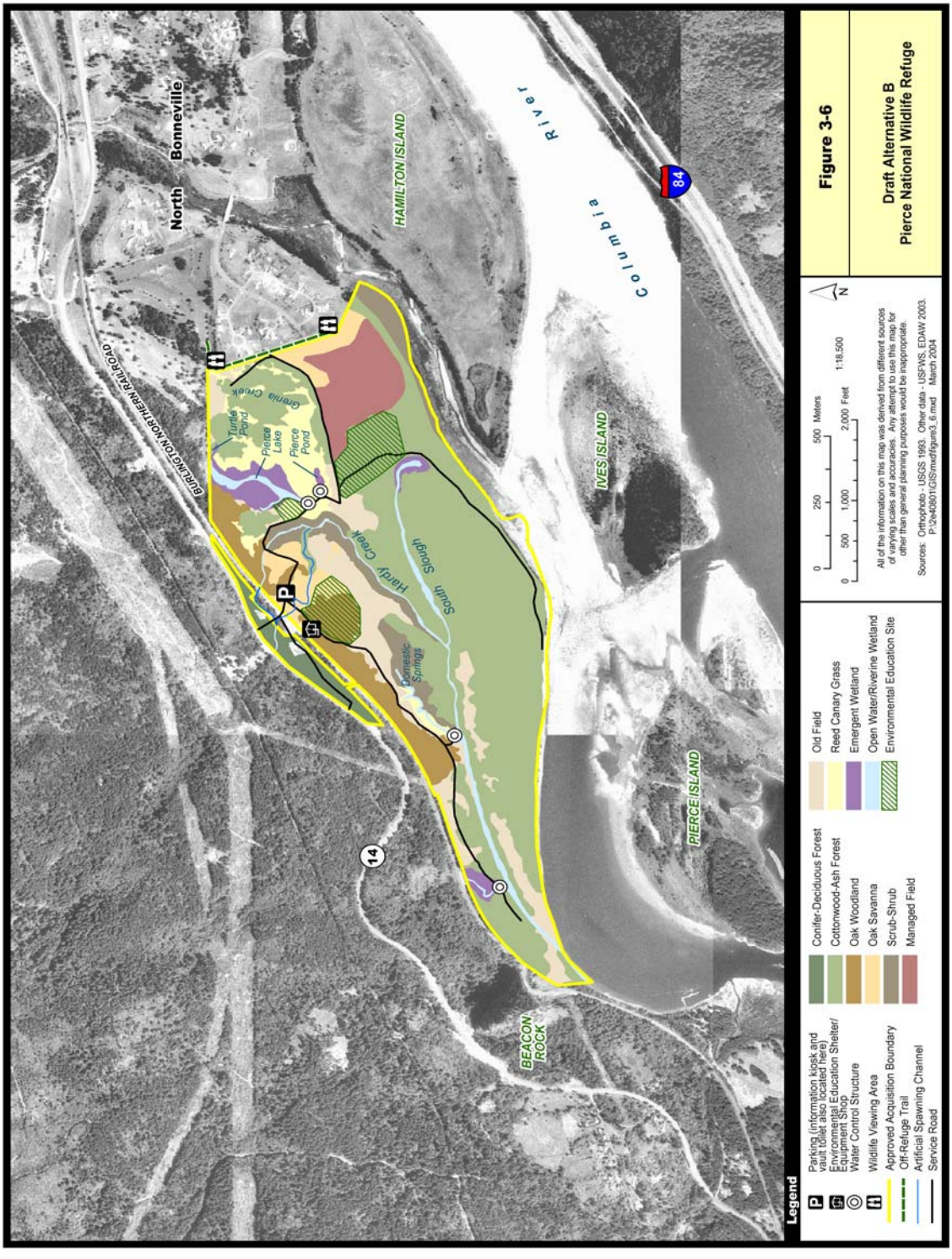
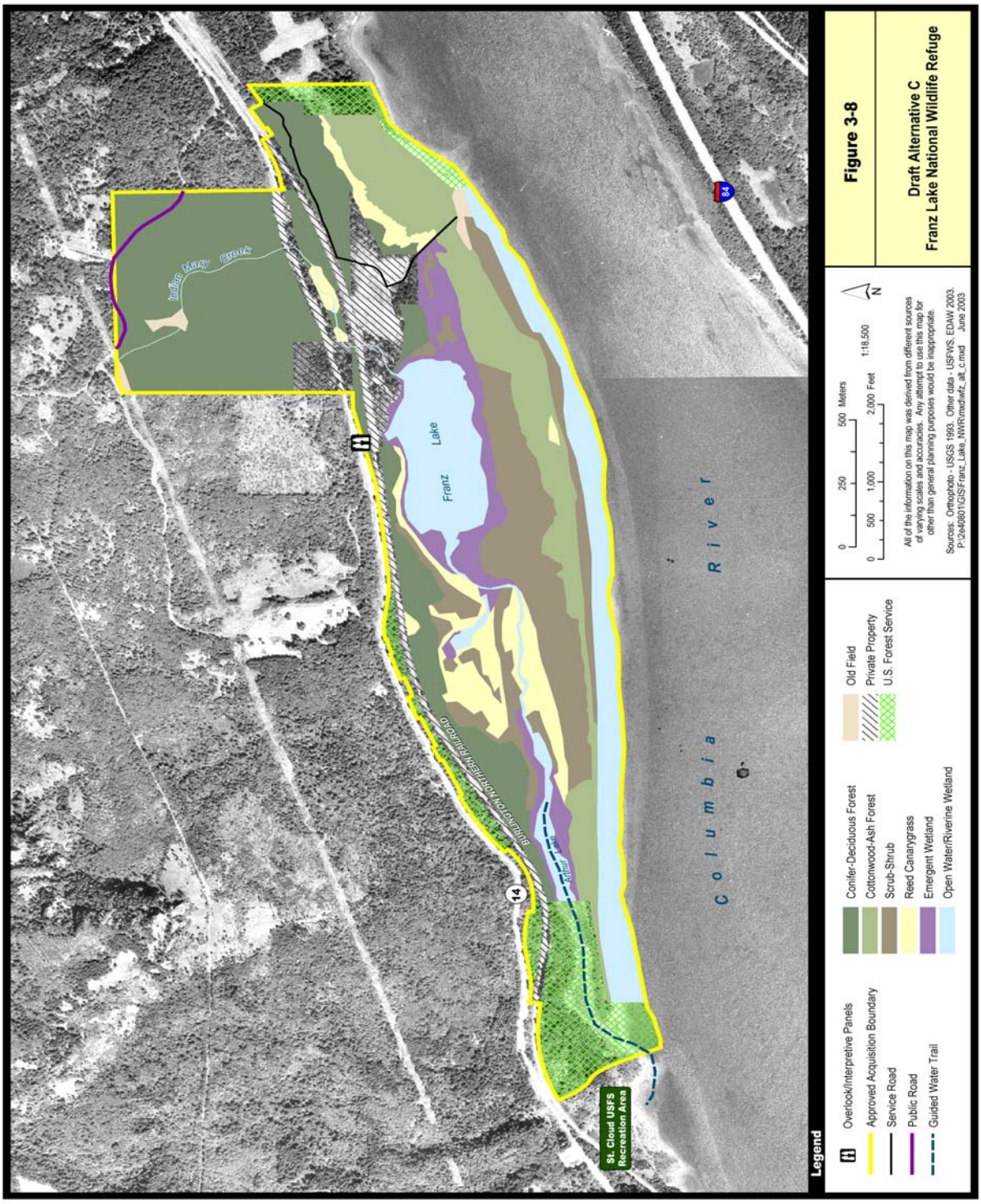
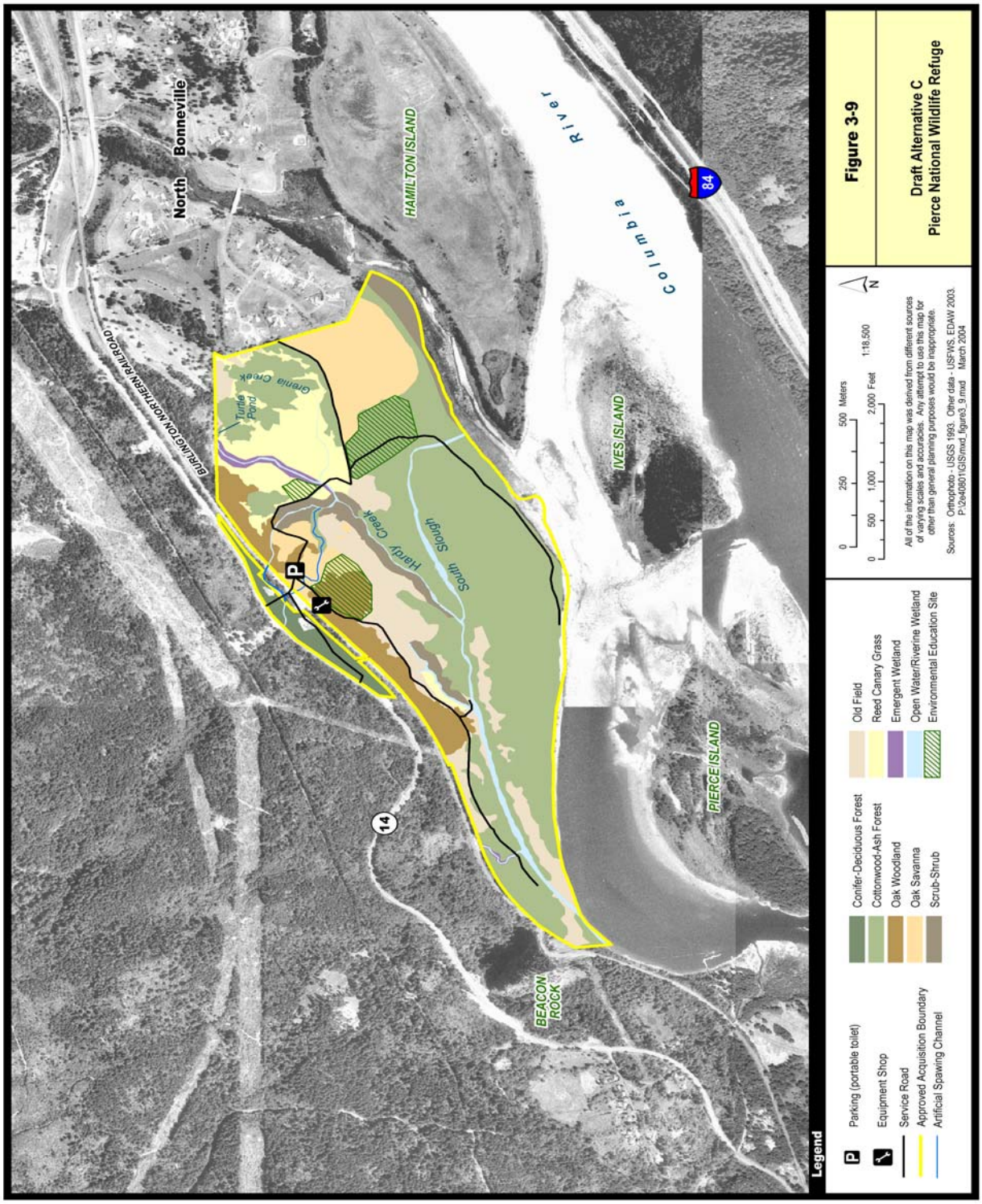


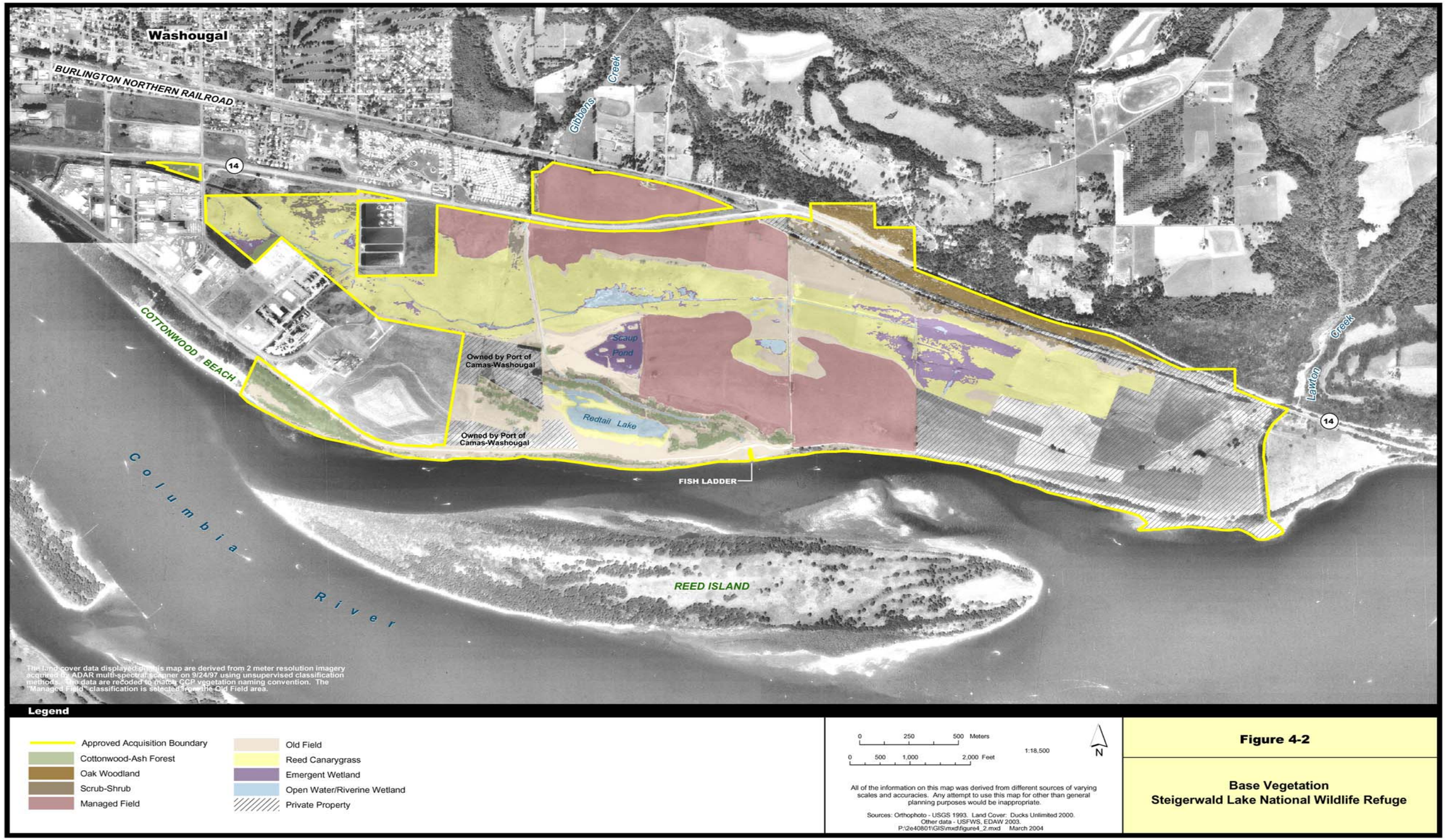
Figure 3-6
Draft Alternative B
Pierce National Wildlife Refuge
Legend
Parking (information kiosk and vault toilet also located here)
Environmental Education Shelter/ Equipment Shop
Water Control Structure
Wildlife Viewing Area
Approved Acquisition Boundary
Off-Refuge Trail
Artificial Spawning Channel
Service Road
Conifer-Deciduous Forest
Cottonwood-Ash Forest
Oak Woodland
Oak Savanna
Scrub-Shrub
Managed Field
Old Field
Reed Canary Grass
Emergent Wetland
Open Water/Riverine Wetland
Environmental Education Site
0 250 500 Meters
0 500 1,000 2,000 Feet 1:18,500
N
All of the information on this map was derived from different sources of varying scales and accuracies. Any attempt to use this map for other than general planning purposes would be inappropriate.
Sources: Orthophoto - USGS 1993. Other data - USFWS, EDAW 2003.
P:\2e\40801\GIS\mxd\figure3_6.mxd March 2004
North Bonneville
BURLINGTON NORTHERN RAILROAD
HAMILTON ISLAND
Columbia River
IVES ISLAND
PIERCE ISLAND
BEACON ROCK
Gibbons Creek
Turtle Pond
Pierce Lake
Pierce Pond
Hardy Creek
South Slough
Domestic Springs
14
84

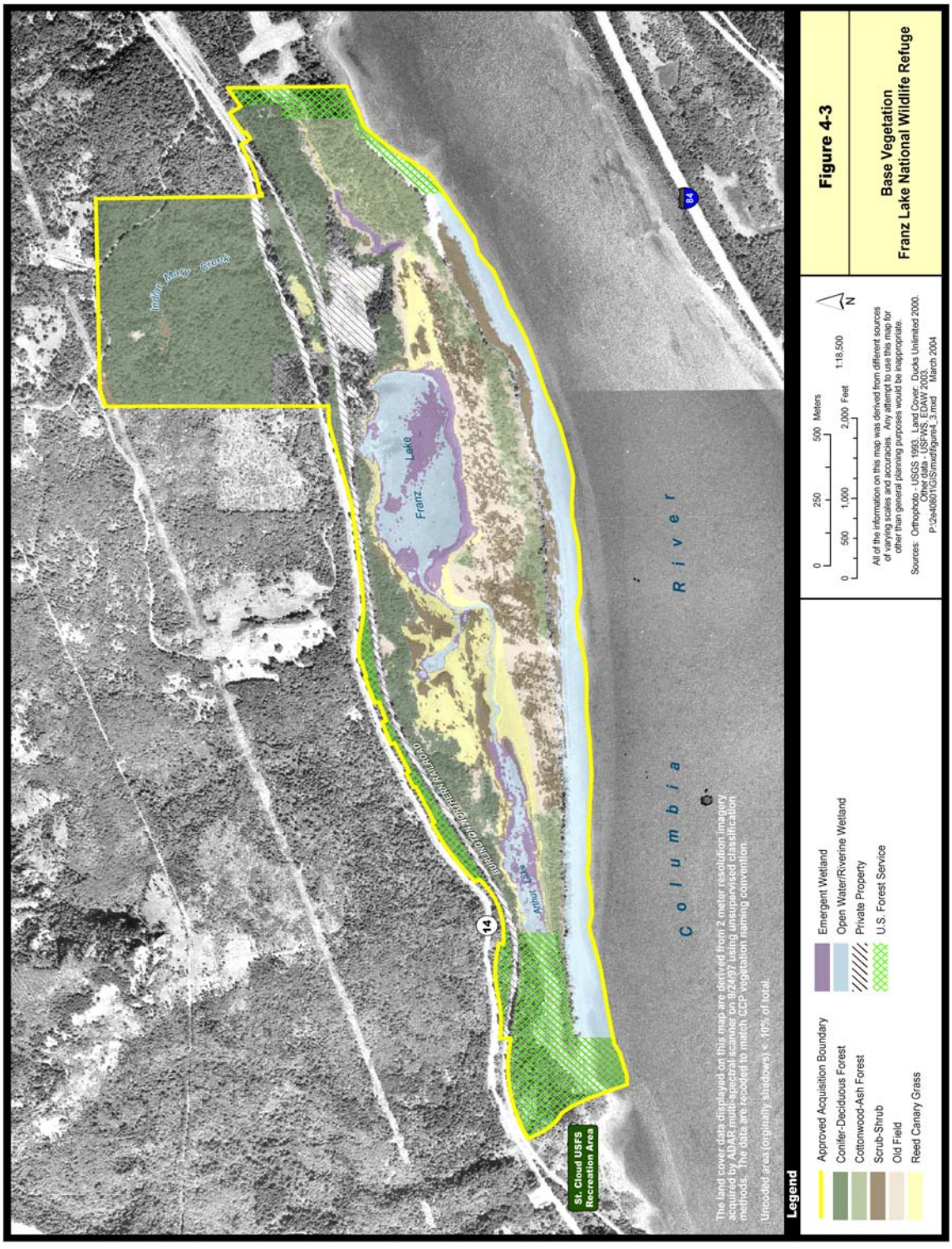
Figure 3-7

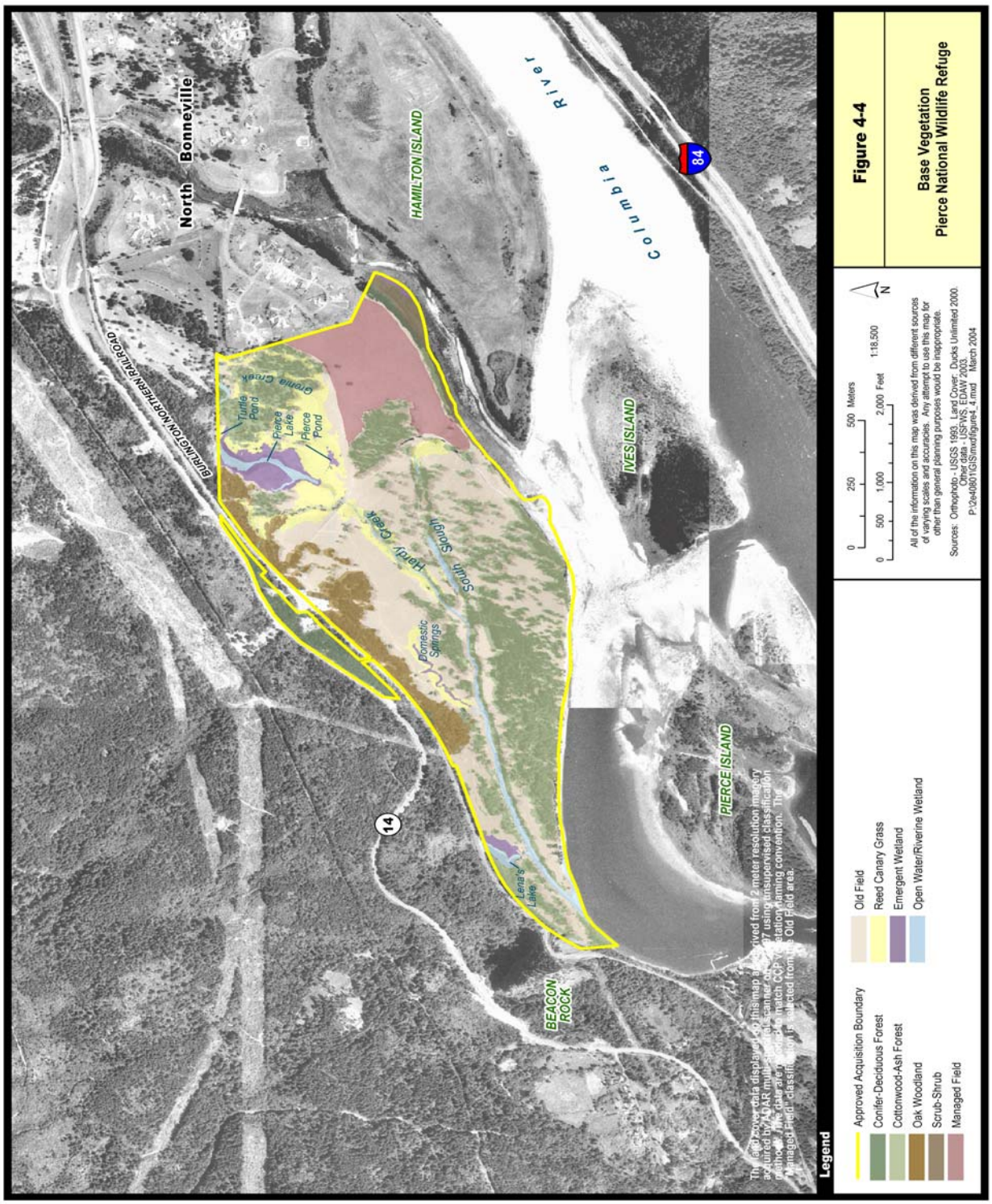
Draft Alternative C
Steigerwald Lake National Wildlife Refuge


Indian Mary Creek
Franz Lake
Columbia River
BURLINGTON NORTHERN RAILROAD
St. Cloud USFS Recreation Area
14
84
Legend
Overlook/Interpretive Panels
Approved Acquisition Boundary
Service Road
Public Road
Guided Water Trail
Conifer-Deciduous Forest
Cottonwood-Ash Forest
Scrub-Shrub
Reed Canarygrass
Emergent Wetland
Open Water/Riverine Wetland
Old Field
Private Property
U.S. Forest Service
0 250 500 Meters
0 500 1,000 2,000 Feet
1:18,500
N
All of the information on this map was derived from different sources of varying scales and accuracies. Any attempt to use this map for other than general planning purposes would be inappropriate.
Sources: Orthophoto - USGS 1993. Other data - USFWS, EDAW 2003.
P:\2e408001\GIS\Franz_Lake_NWR\mxd\wtz_alt_c.mxd June 2003
Figure 3-8
Draft Alternative C
Franz Lake National Wildlife Refuge


North Bonneville
HAMILTON ISLAND
Columbia River
BURLINGTON NORTHERN RAILROAD
Gibbia Creek
Turtle Pond
Hardy Creek
South Slough
IVES ISLAND
PIERCE ISLAND
BEACON ROCK
14
84
P
Legend
Parking (portable toilet)
Equipment Shop
Service Road
Approved Acquisition Boundary
Artificial Spawning Channel
Conifer-Deciduous Forest
Cottonwood-Ash Forest
Oak Woodland
Oak Savanna
Scrub-Shrub
Old Field
Reed Canary Grass
Emergent Wetland
Open Water/Riverine Wetland
Environmental Education Site
0 250 500 Meters
0 500 1,000 2,000 Feet
1:18,500
N
All of the information on this map was derived from different sources of varying scales and accuracies. Any attempt to use this map for other than general planning purposes would be inappropriate.
Sources: Orthophoto - USGS 1993. Other data - USFWS, EDAW 2003.
P:\2x4\0801\GIS\mxd_figure3_9.mxd March 2004
Figure 3-9
Draft Alternative C
Pierce National Wildlife Refuge


Washougal
BURLINGTON NORTHERN RAILROAD
14
Gibbons Creek
COTTONWOOD BEACH
Owned by Port of Camas-Washougal
Scaup Pond
Redtail Lake
Owned by Port of Camas-Washougal
Lawton Creek
14
FISH LADDER
REED ISLAND
Columbia River
The land cover data displayed on this map are derived from 2 meter resolution imagery acquired by ADAR multi-spectral scanner on 9/24/97 using unsupervised classification methods. The data are recoded to match CCP vegetation naming convention. The "Managed Field" classification is selected from the Old Field area.
Legend
Approved Acquisition Boundary
Cottonwood-Ash Forest
Oak Woodland
Scrub-Shrub
Managed Field
Old Field
Reed Canarygrass
Emergent Wetland
Open Water/Riverine Wetland
Private Property
0 250 500 Meters
0 500 1,000 2,000 Feet
1:18,500
N
All of the information on this map was derived from different sources of varying scales and accuracies. Any attempt to use this map for other than general planning purposes would be inappropriate.
Sources: Orthophoto - USGS 1993. Land Cover: Ducks Unlimited 2000.
Other data - USFWS, EDAW 2003.
P:\2e40801\GIS\mxd\figure4_2.mxd March 2004
Figure 4-2
Base Vegetation
Steigerwald Lake National Wildlife Refuge


Indian Mary Creek
Franz Lake
Columbia River
St. Cloud USFS Recreation Area
Burlington Northern Railroad
Arthur Lake
14
84
Legend
Approved Acquisition Boundary
Conifer-Deciduous Forest
Cottonwood-Ash Forest
Scrub-Shrub
Old Field
Reed Canary Grass
Emergent Wetland
Open Water/Riverine Wetland
Private Property
U.S. Forest Service
The land cover data displayed on this map are derived from 2 meter resolution imagery acquired by ADAR multispectral scanner on 9/24/97 using unsupervised classification methods. The data are recoded to match CCP vegetation naming convention.
Uncoded area (originally shadows) < 10% of total.
0 250 500 Meters
0 500 1,000 2,000 Feet
1:18,500
N
All of the information on this map was derived from different sources of varying scales and accuracies. Any attempt to use this map for other than general planning purposes would be inappropriate.
Sources: Orthophoto - USGS 1993. Land Cover: Ducks Unlimited 2000.
Other data - USFWS, EDAW 2003.
P:\2x4\0601GIS\mxd\figure4_3.mxd March 2004
Figure 4-3
Base Vegetation
Franz Lake National Wildlife Refuge


North Bonneville
HAMILTON ISLAND
Columbia River
BURLINGTON NORTHERN RAILROAD
Gibbons Creek
Turtle Pond
Piece Lake
Pierce Pond
Henly Creek
South Slough
Domestic Springs
Lena's Lake
IVES ISLAND
PIERCE ISLAND
BEACON ROCK
14
84
Legend
Approved Acquisition Boundary
Conifer-Deciduous Forest
Cottonwood-Ash Forest
Oak Woodland
Scrub-Shrub
Managed Field
Old Field
Reed Canary Grass
Emergent Wetland
Open Water/Riverine Wetland
0 250 500 Meters
0 500 1,000 2,000 Feet
1:18,500
N
All of the information on this map was derived from different sources of varying scales and accuracies. Any attempt to use this map for other than general planning purposes would be inappropriate.
Sources: Orthophoto - USGS 1993. Land Cover: Ducks Unlimited 2000.
Other data - USFWS, EDAW 2003.
P:\2e40801\GIS\mxd\figure4_4.mxd March 2004
Figure 4-4
Base Vegetation
Pierce National Wildlife Refuge