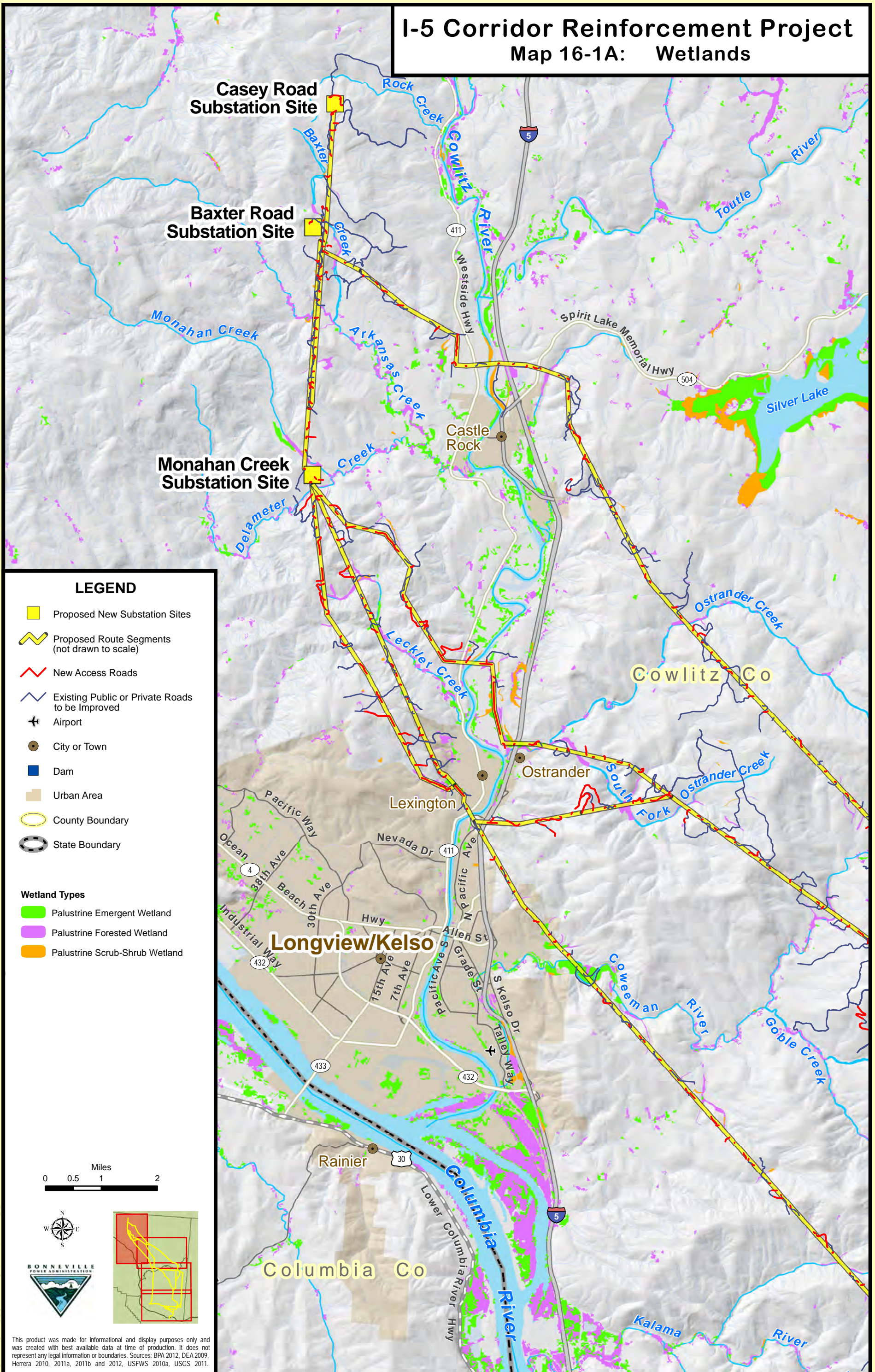


I-5 Corridor Reinforcement Project

Map 16-1A: Wetlands

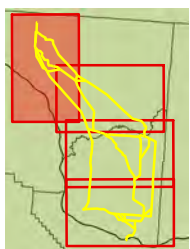


LEGEND

- Proposed New Substation Sites
- Proposed Route Segments (not drawn to scale)
- New Access Roads
- Existing Public or Private Roads to be Improved
- Airport
- City or Town
- Dam
- Urban Area
- County Boundary
- State Boundary

Wetland Types

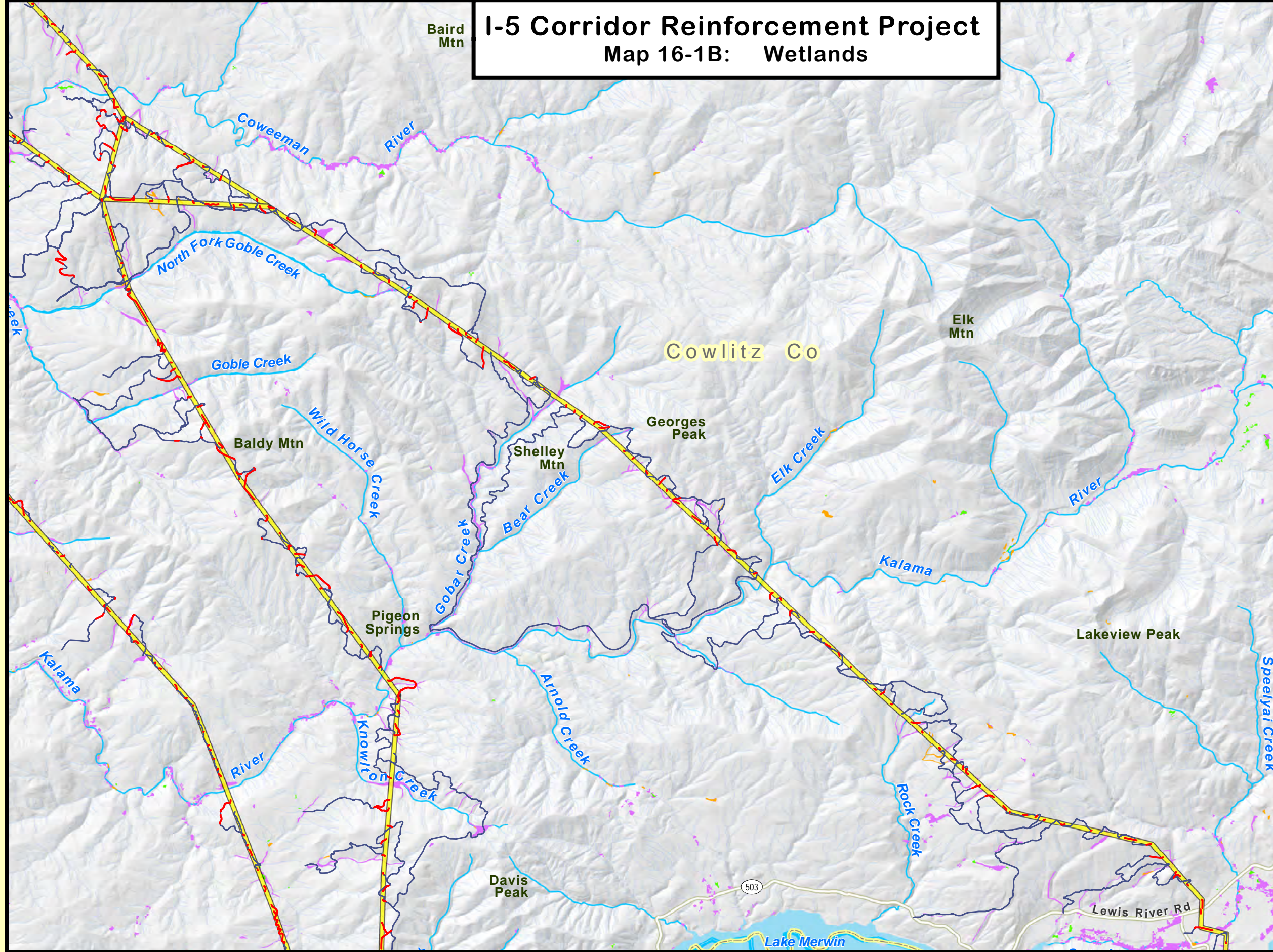
- Palustrine Emergent Wetland
- Palustrine Forested Wetland
- Palustrine Scrub-Shrub Wetland



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I-5 Corridor Reinforcement Project

Map 16-1B: Wetlands



LEGEND

- Proposed New Substation Sites
- Proposed Route Segments (not drawn to scale)
- New Access Roads
- Existing Public or Private Roads to be Improved
- Airport
- City or Town
- Dam
- Urban Area
- County Boundary
- State Boundary

Wetland Types

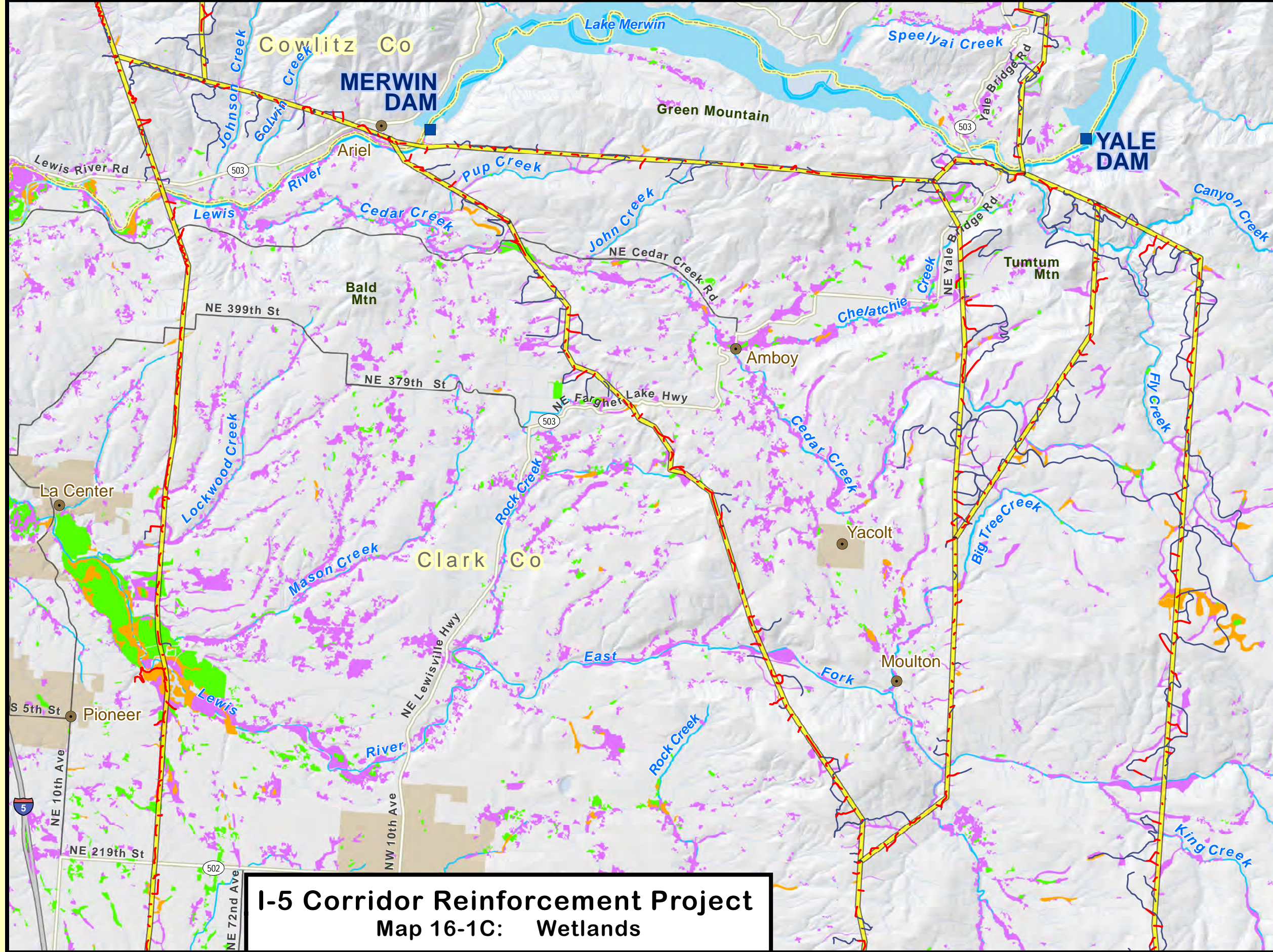
- Palustrine Emergent Wetland
- Palustrine Forested Wetland
- Palustrine Scrub-Shrub Wetland

Miles
0 0.5 1 2

BONNEVILLE
PORTLAND

This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, USFWS 2010a, USGS 2011.

Map 16-1B: Wetlands

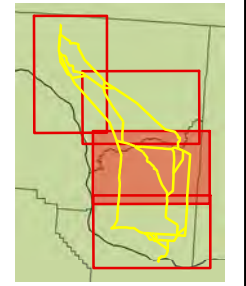


LEGEND

- Proposed New Substation Sites
- Proposed Route Segments (not drawn to scale)
- New Access Roads
- Existing Public or Private Roads to be Improved
- Airport
- City or Town
- Dam
- Urban Area
- County Boundary
- State Boundary

Wetland Types

- Palustrine Emergent Wetland
- Palustrine Forested Wetland
- Palustrine Scrub-Shrub Wetland



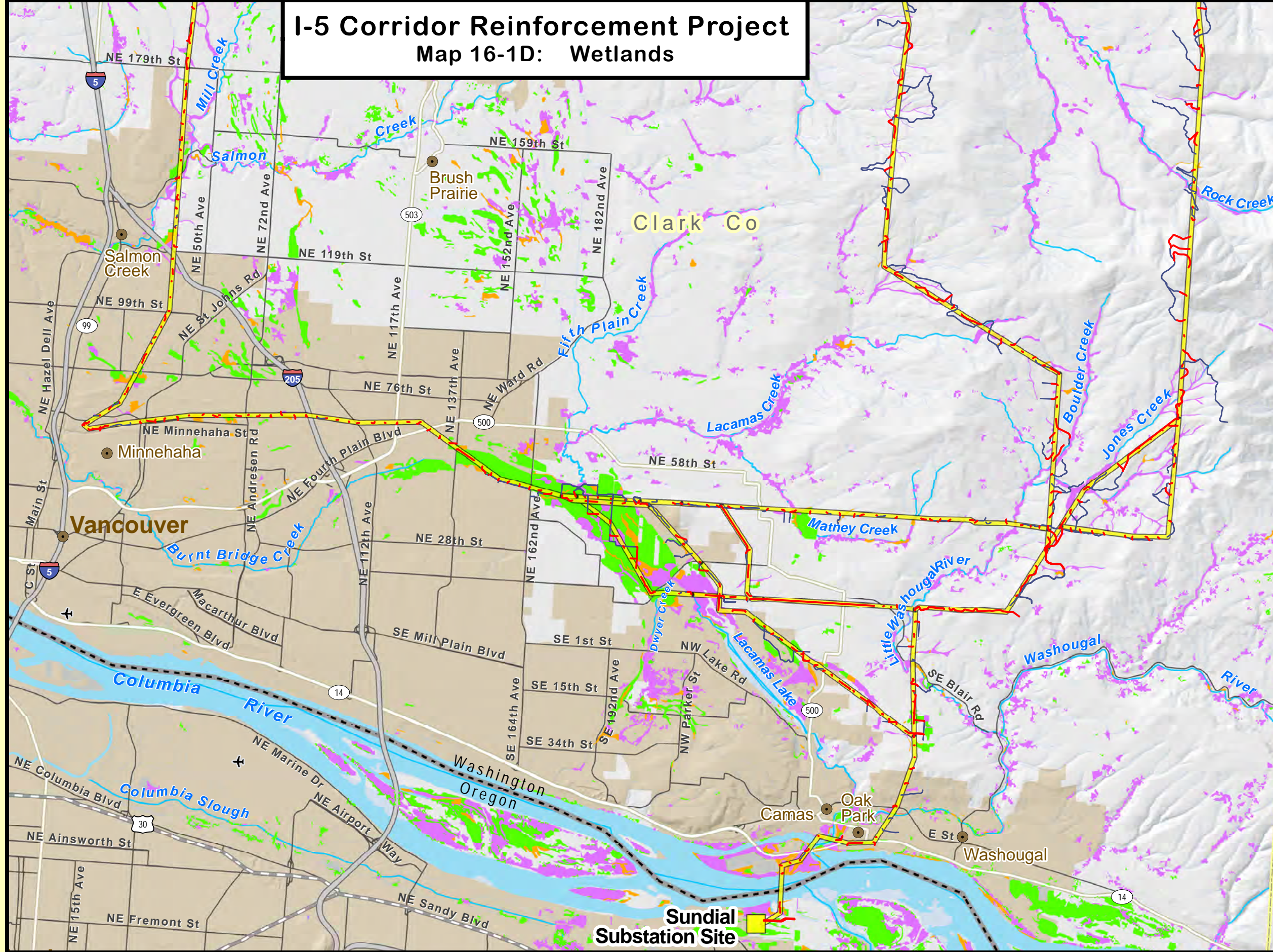
This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, USFWS 2010a, USGS 2011.

I-5 Corridor Reinforcement Project
Map 16-1C: Wetlands

Map 16-1C: Wetlands

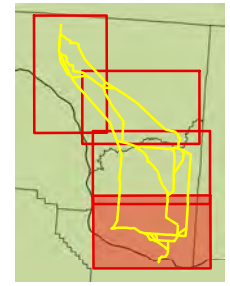
I-5 Corridor Reinforcement Project

Map 16-1D: Wetlands



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - Urban Area
 - County Boundary
 - State Boundary

- ### Wetland Types
- Palustrine Emergent Wetland
 - Palustrine Forested Wetland
 - Palustrine Scrub-Shrub Wetland

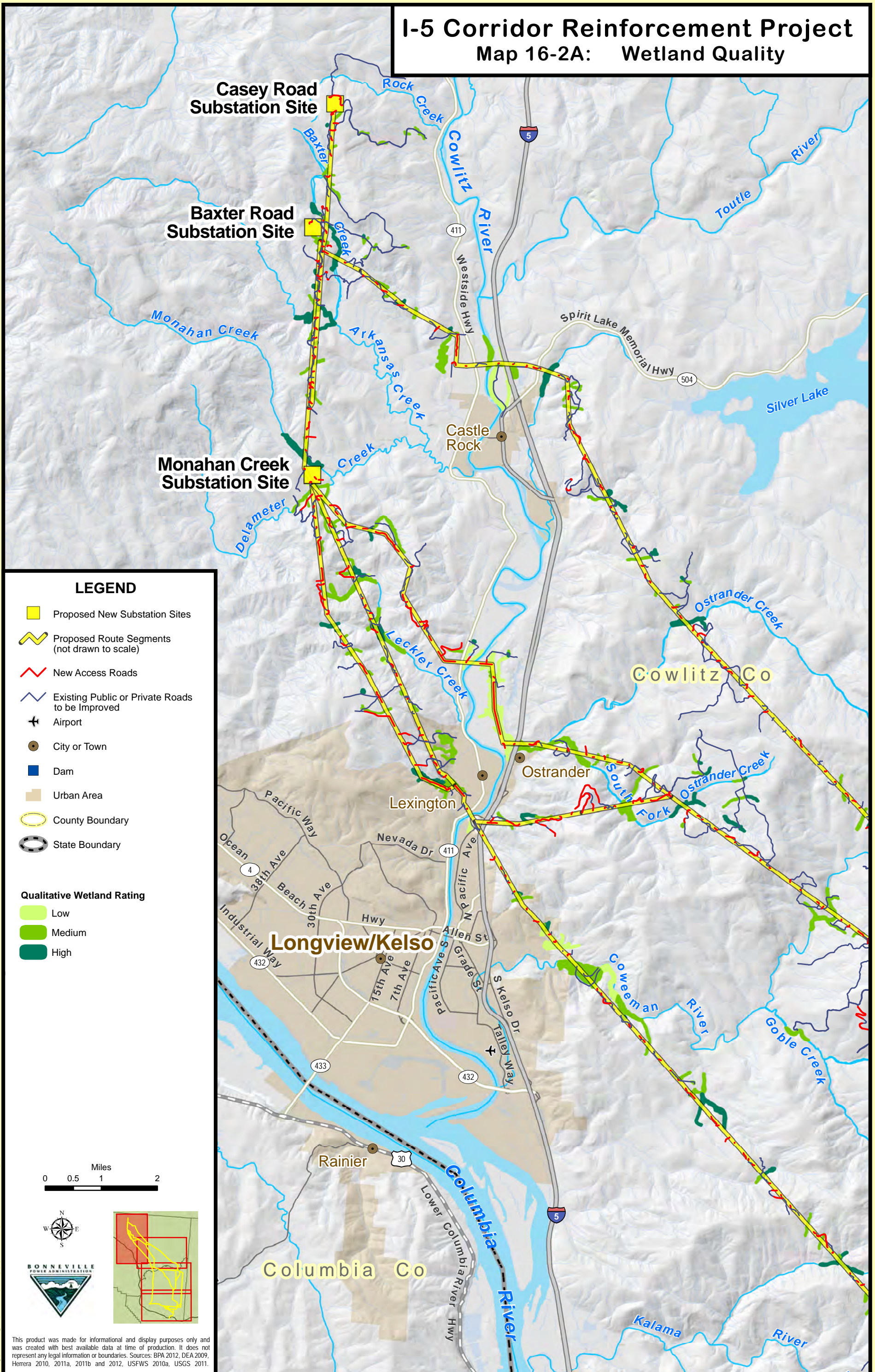


This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, USFWS 2010a, USGS 2011.

Map 16-1D: Wetlands

I-5 Corridor Reinforcement Project

Map 16-2A: Wetland Quality

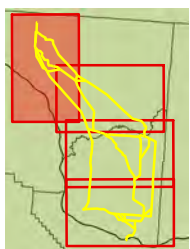


LEGEND

- Proposed New Substation Sites
- Proposed Route Segments (not drawn to scale)
- New Access Roads
- Existing Public or Private Roads to be Improved
- Airport
- City or Town
- Dam
- Urban Area
- County Boundary
- State Boundary

Qualitative Wetland Rating

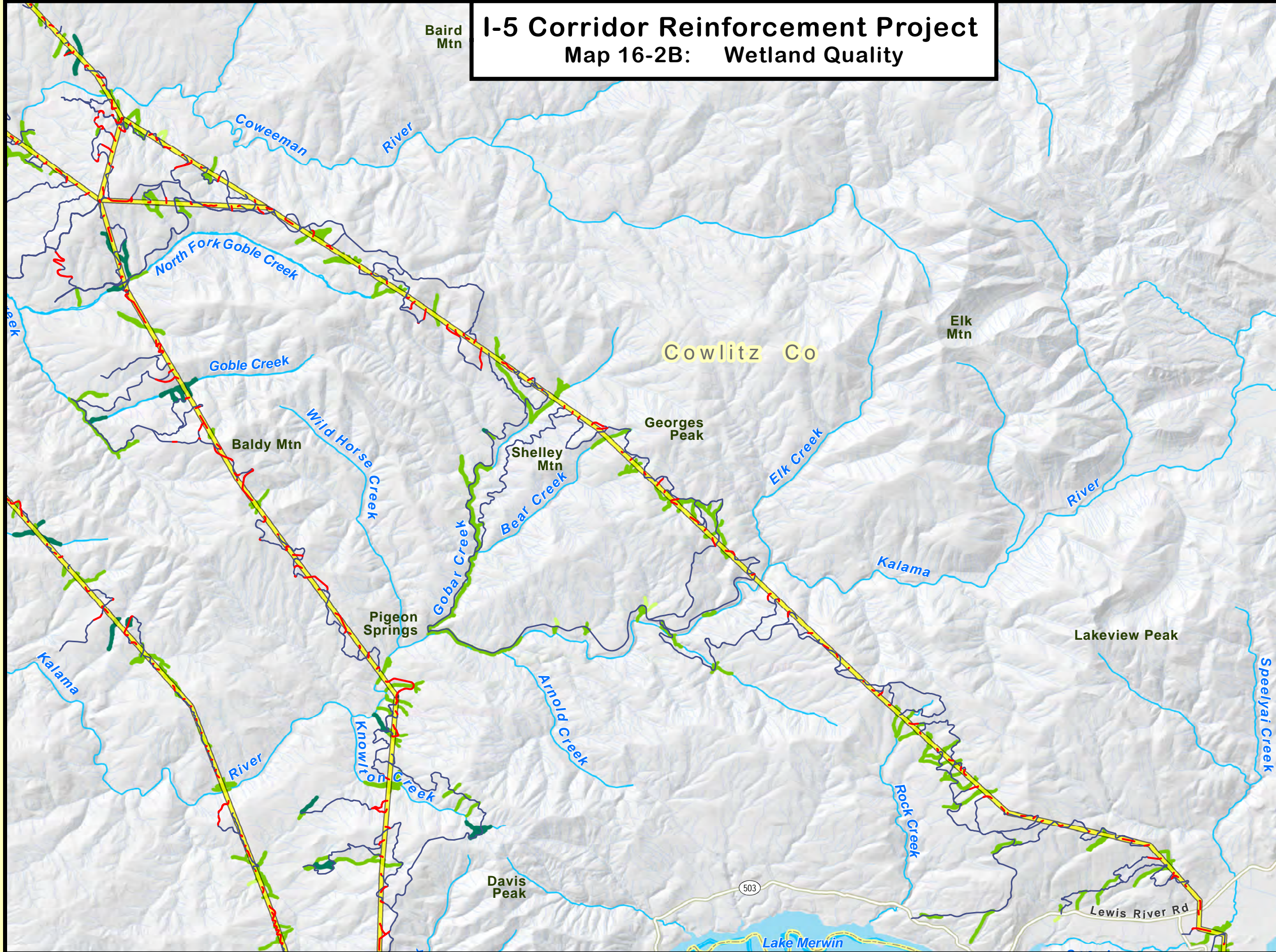
- Low
- Medium
- High



This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, USFWS 2010a, USGS 2011.

I-5 Corridor Reinforcement Project

Map 16-2B: Wetland Quality



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - Urban Area
 - County Boundary
 - State Boundary

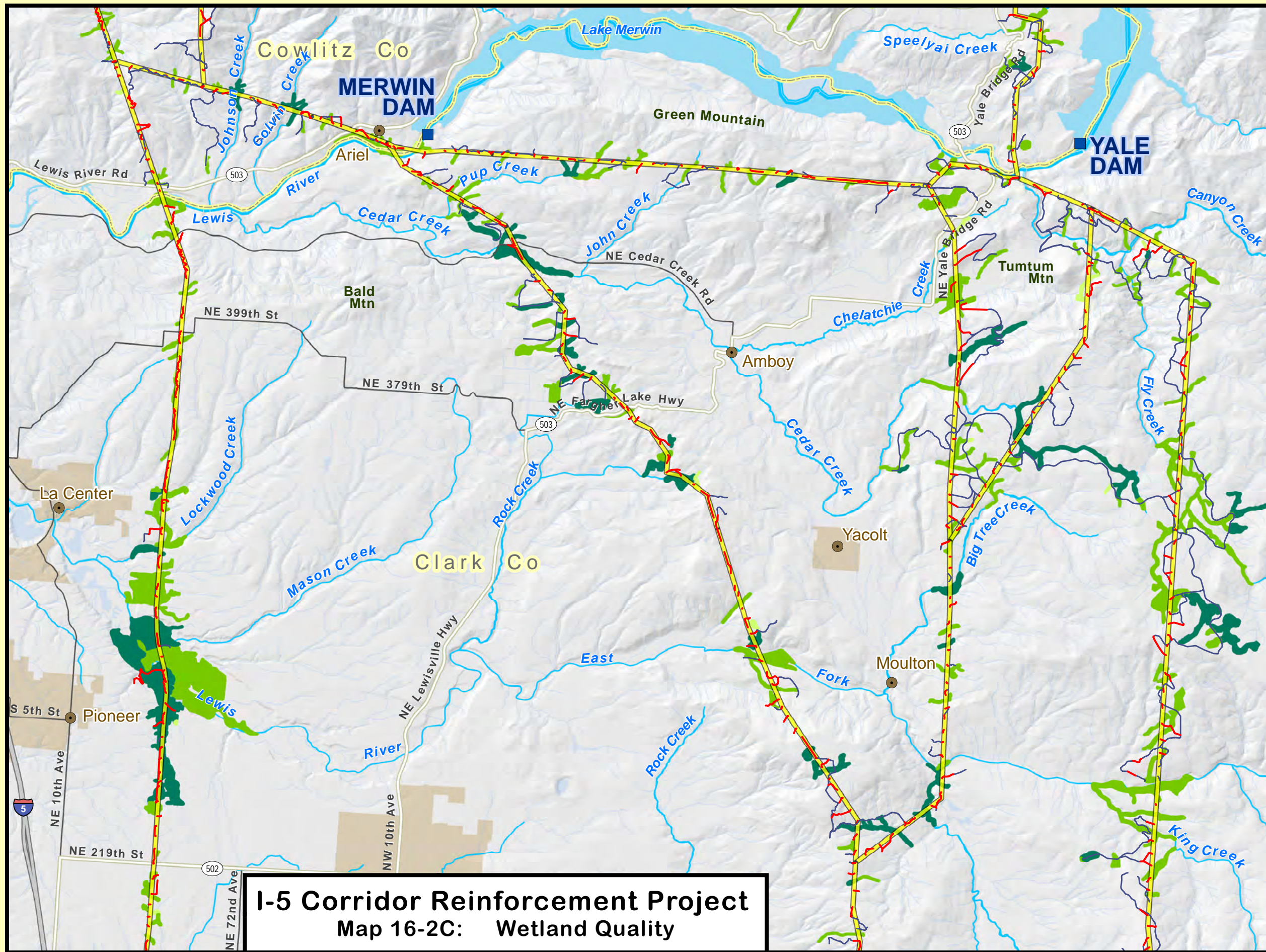
- ### Qualitative Wetland Rating
- Low
 - Medium
 - High

Miles
0 0.5 1 2

BONNEVILLE
FISH ADMINISTRATION

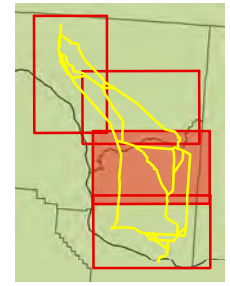
This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, USFWS 2010a, USGS 2011.

Map 16-2B: Wetland Quality



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - Urban Area
 - County Boundary
 - State Boundary

- ### Qualitative Wetland Rating
- Low
 - Medium
 - High

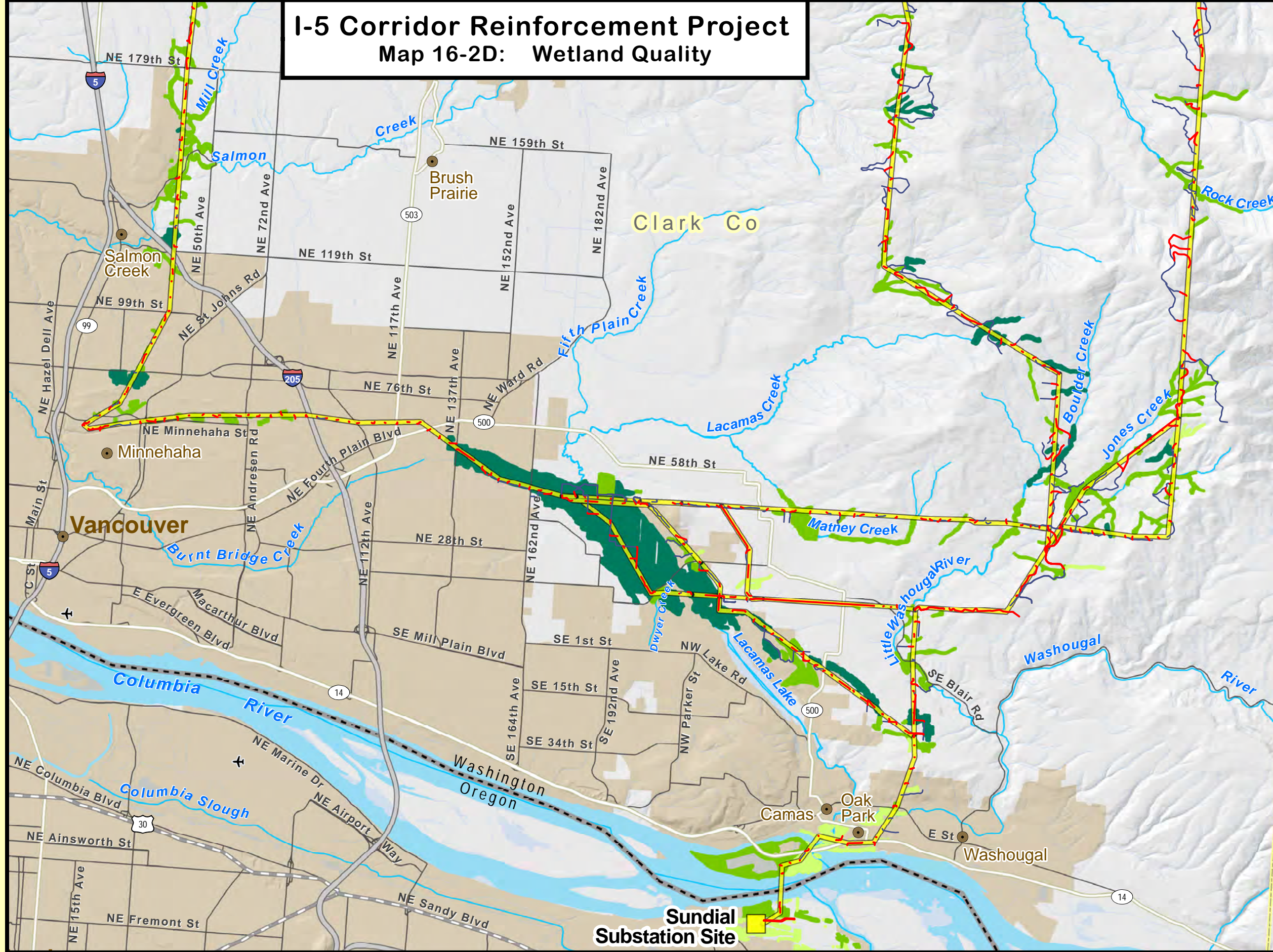


I-5 Corridor Reinforcement Project
Map 16-2C: Wetland Quality

This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, USFWS 2010a, USGS 2011.

I-5 Corridor Reinforcement Project

Map 16-2D: Wetland Quality



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - Urban Area
 - County Boundary
 - State Boundary

- ### Qualitative Wetland Rating
- Low
 - Medium
 - High

Miles
0 0.5 1 2

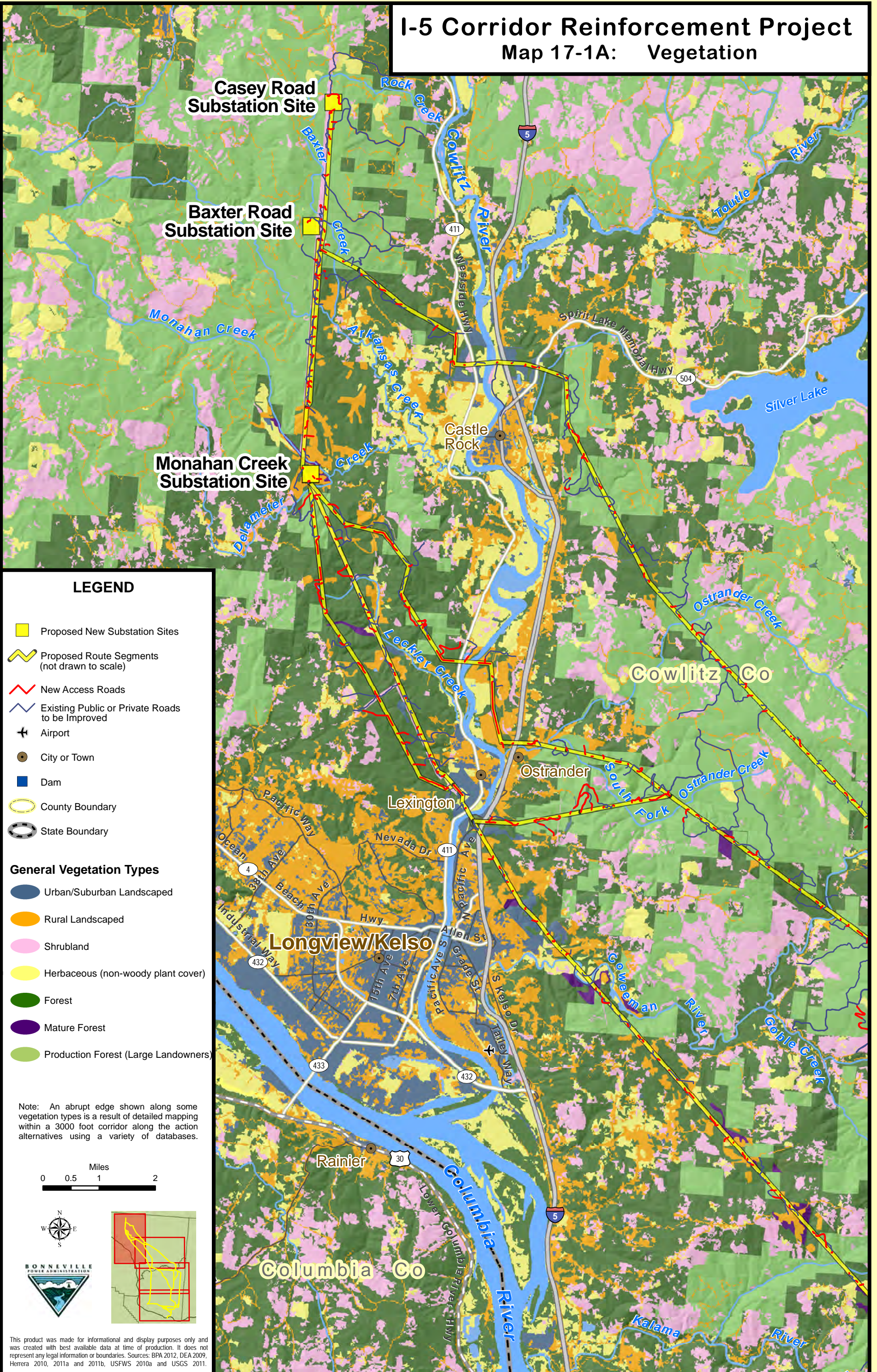
BONNEVILLE
POWER ADMINISTRATION

This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, USFWS 2010a, USGS 2011.

Map 16-2D: Wetland Quality

I-5 Corridor Reinforcement Project

Map 17-1A: Vegetation



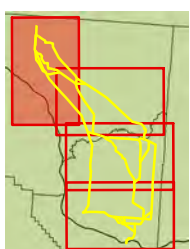
LEGEND

- Proposed New Substation Sites
- Proposed Route Segments (not drawn to scale)
- New Access Roads
- Existing Public or Private Roads to be Improved
- Airport
- City or Town
- Dam
- County Boundary
- State Boundary

General Vegetation Types

- Urban/Suburban Landscaped
- Rural Landscaped
- Shrubland
- Herbaceous (non-woody plant cover)
- Forest
- Mature Forest
- Production Forest (Large Landowners)

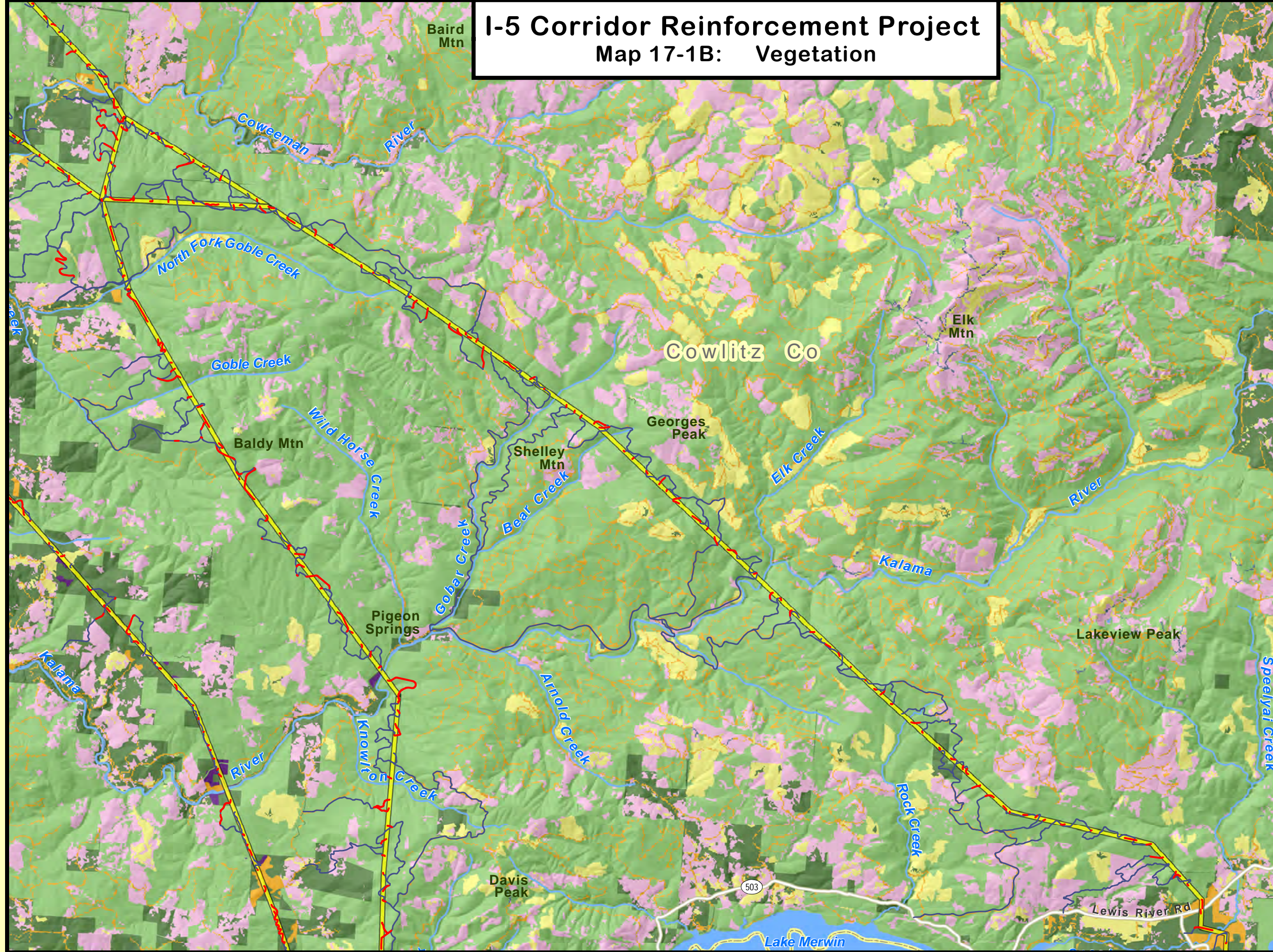
Note: An abrupt edge shown along some vegetation types is a result of detailed mapping within a 3000 foot corridor along the action alternatives using a variety of databases.



This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a and 2011b, USFWS 2010a and USGS 2011.

I-5 Corridor Reinforcement Project

Map 17-1B: Vegetation



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - County Boundary
 - State Boundary

- ### General Vegetation Types
- Urban/Suburban Landscaped
 - Rural Landscaped
 - Shrubland
 - Herbaceous (non-woody plant cover)
 - Forest
 - Mature Forest
 - Production Forest (Large Landowner)

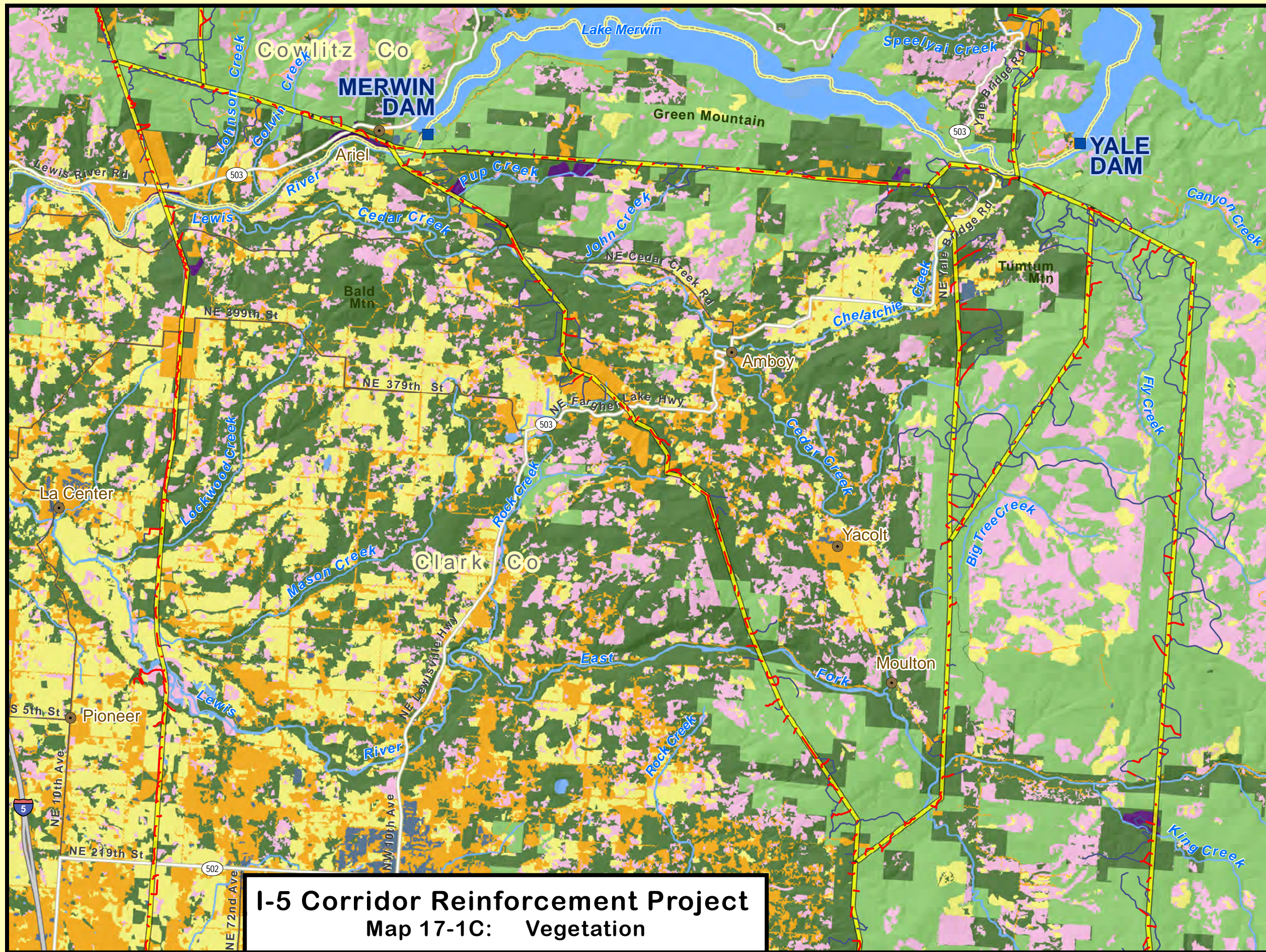
Note: An abrupt edge shown along some vegetation types is a result of detailed mapping within a 3000 foot corridor along the action alternatives using a variety of databases.

Miles
0 0.5 1 2

BONNEVILLE
FOREST ADMINISTRATION

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Map 17-1B: Vegetation



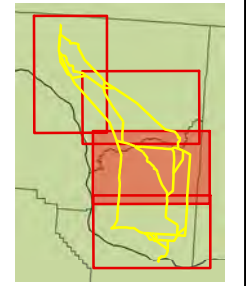
LEGEND

- Proposed New Substation Sites
- Proposed Route Segments (not drawn to scale)
- New Access Roads
- Existing Public or Private Roads to be Improved
- Airport
- City or Town
- Dam
- County Boundary
- State Boundary

General Vegetation Types

- Urban/Suburban Landscaped
- Rural Landscaped
- Shrubland
- Herbaceous (non-woody plant cover)
- Forest
- Mature Forest
- Production Forest (Large Landowner)

Note: An abrupt edge shown along some vegetation types is a result of detailed mapping within a 3000 foot corridor along the action alternatives using a variety of databases.



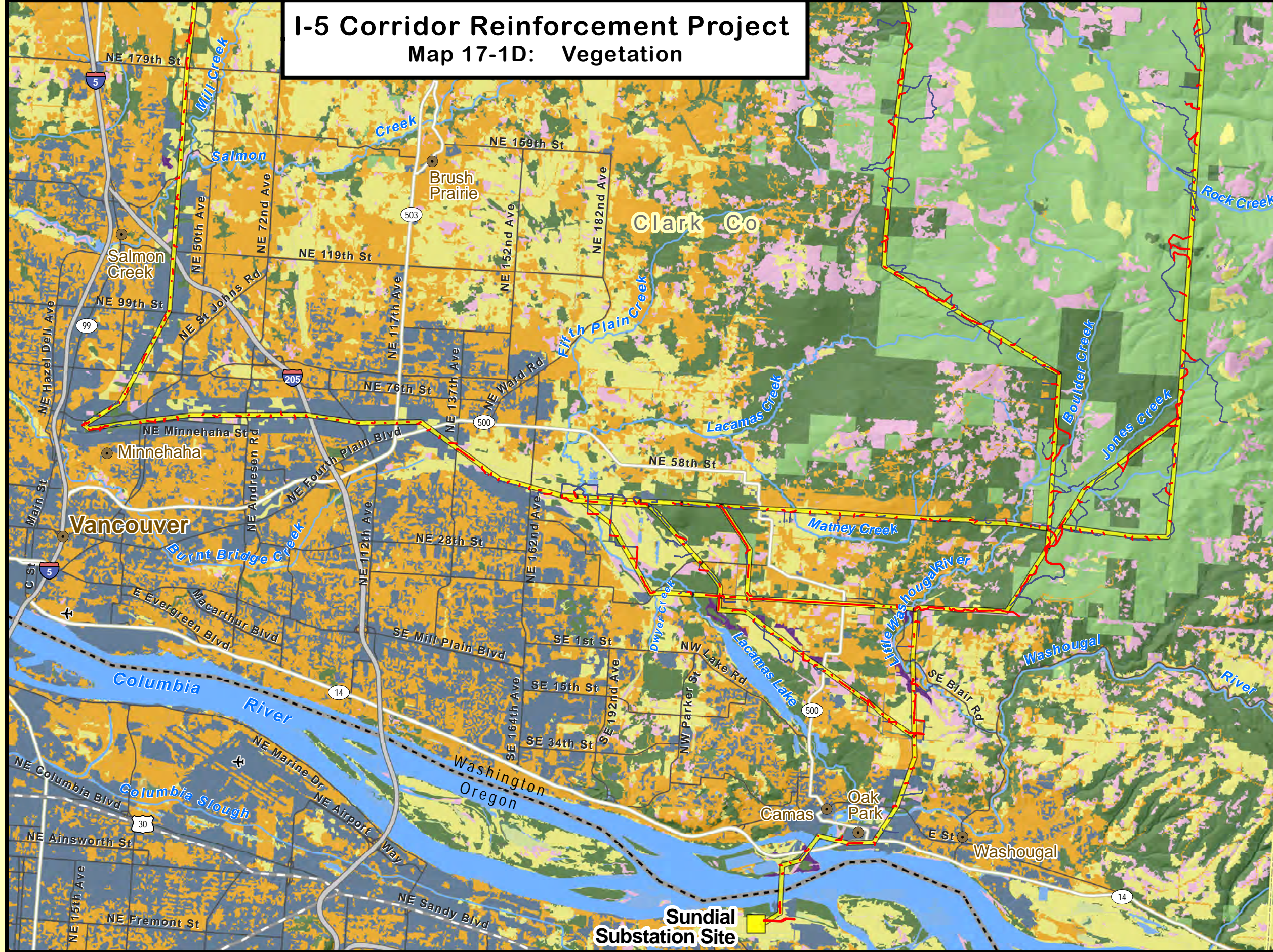
I-5 Corridor Reinforcement Project
Map 17-1C: Vegetation

Map 17-1C: Vegetation

This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a and 2011b, USFWS 2010a and USGS 2011.

I-5 Corridor Reinforcement Project

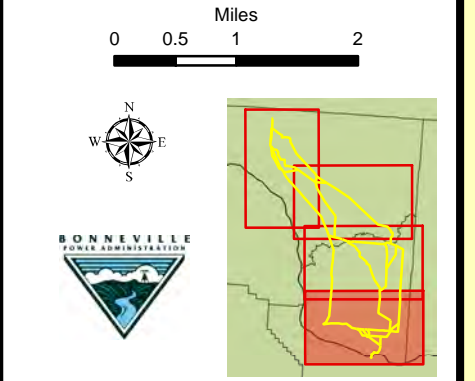
Map 17-1D: Vegetation



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - County Boundary
 - State Boundary

- ### General Vegetation Types
- Urban/Suburban Landscaped
 - Rural Landscaped
 - Shrubland
 - Herbaceous (non-woody plant cover)
 - Forest
 - Mature Forest
 - Production Forest (Large Landowner)

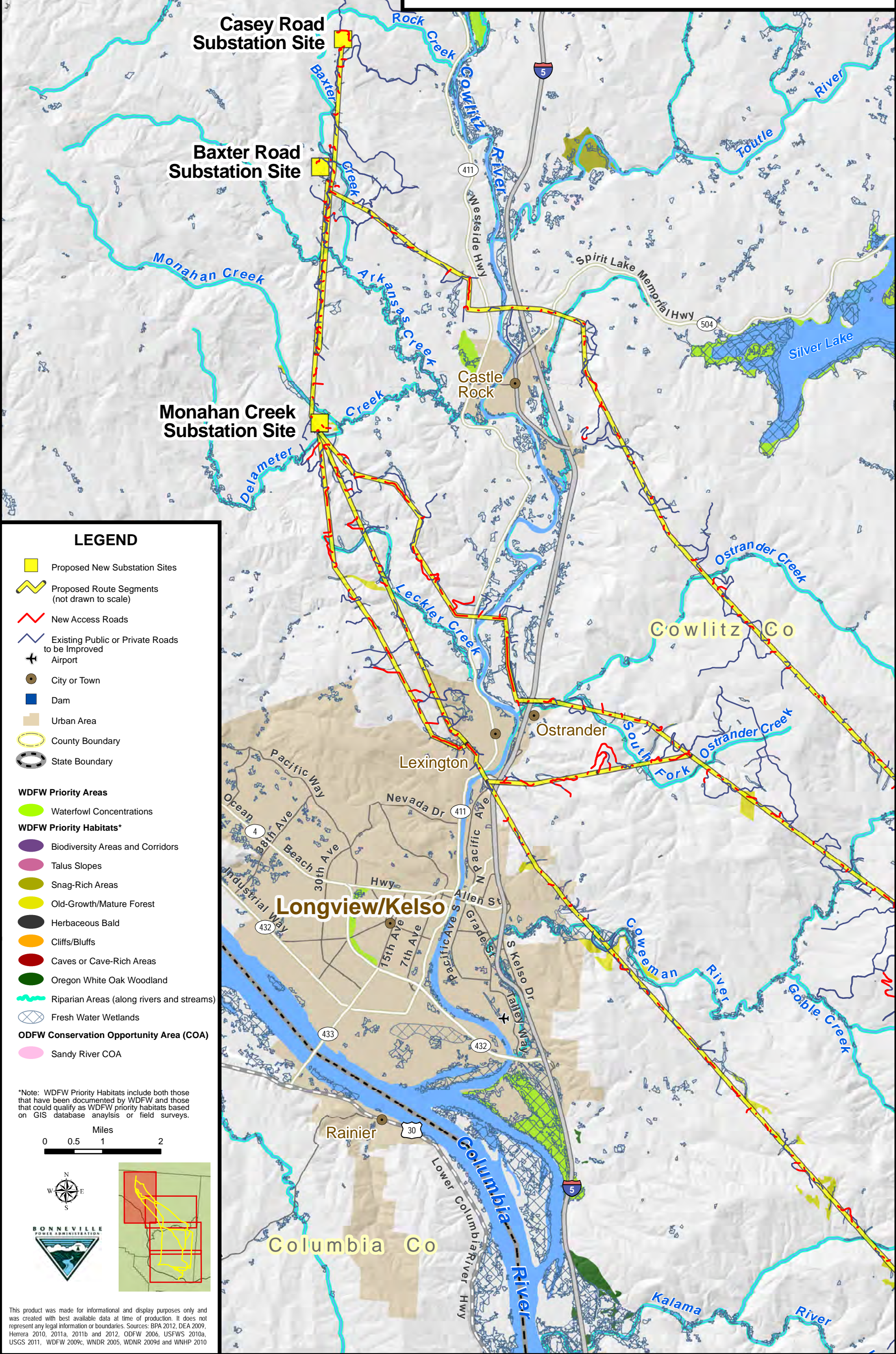
Note: An abrupt edge shown along some vegetation types is a result of detailed mapping within a 3000 foot corridor along the action alternatives using a variety of databases.



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I-5 Corridor Reinforcement Project

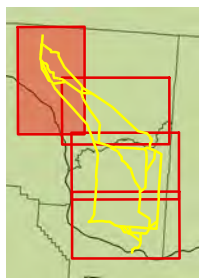
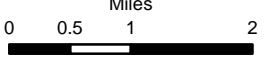
Map 18-1A: High Value Native Wildlife Habitats



LEGEND

- Proposed New Substation Sites
- Proposed Route Segments (not drawn to scale)
- New Access Roads
- Existing Public or Private Roads to be Improved
- Airport
- City or Town
- Dam
- Urban Area
- County Boundary
- State Boundary
- WDFW Priority Areas**
- Waterfowl Concentrations
- WDFW Priority Habitats***
- Biodiversity Areas and Corridors
- Talus Slopes
- Snag-Rich Areas
- Old-Growth/Mature Forest
- Herbaceous Bald
- Cliffs/Bluffs
- Caves or Cave-Rich Areas
- Oregon White Oak Woodland
- Riparian Areas (along rivers and streams)
- Fresh Water Wetlands
- ODFW Conservation Opportunity Area (COA)**
- Sandy River COA

*Note: WDFW Priority Habitats include both those that have been documented by WDFW and those that could qualify as WDFW priority habitats based on GIS database analysis or field surveys.

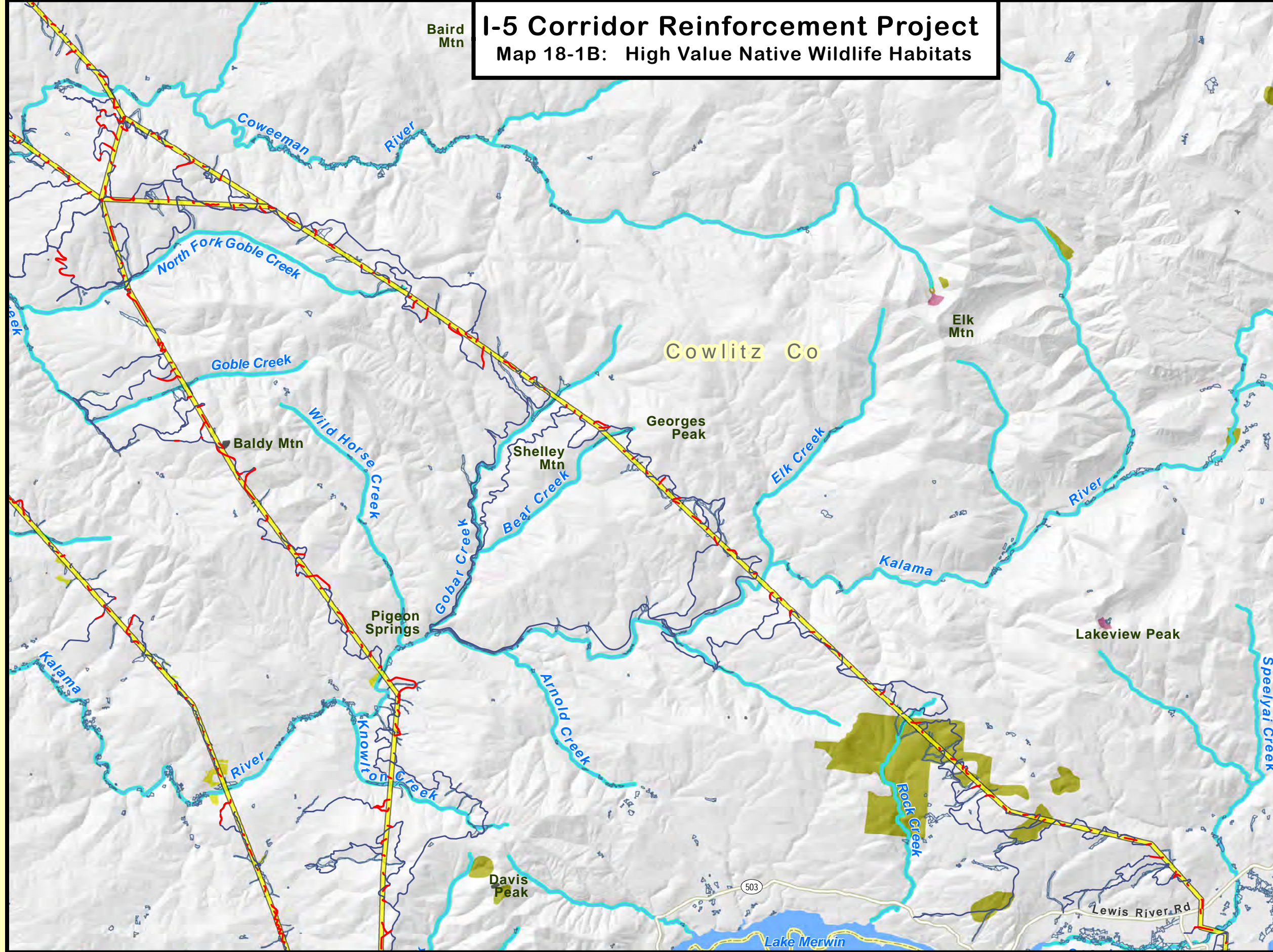


This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, ODFW 2006, USFWS 2010a, USGS 2011, WDFW 2009c, WNDR 2005, WDNR 2009d and WNHP 2010

Map 18-1A: High Value Native Wildlife Habitats

I-5 Corridor Reinforcement Project

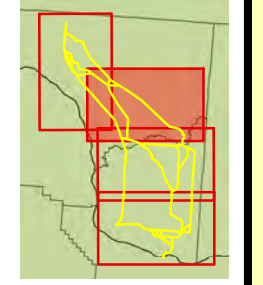
Map 18-1B: High Value Native Wildlife Habitats



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - Urban Area
 - County Boundary
 - State Boundary

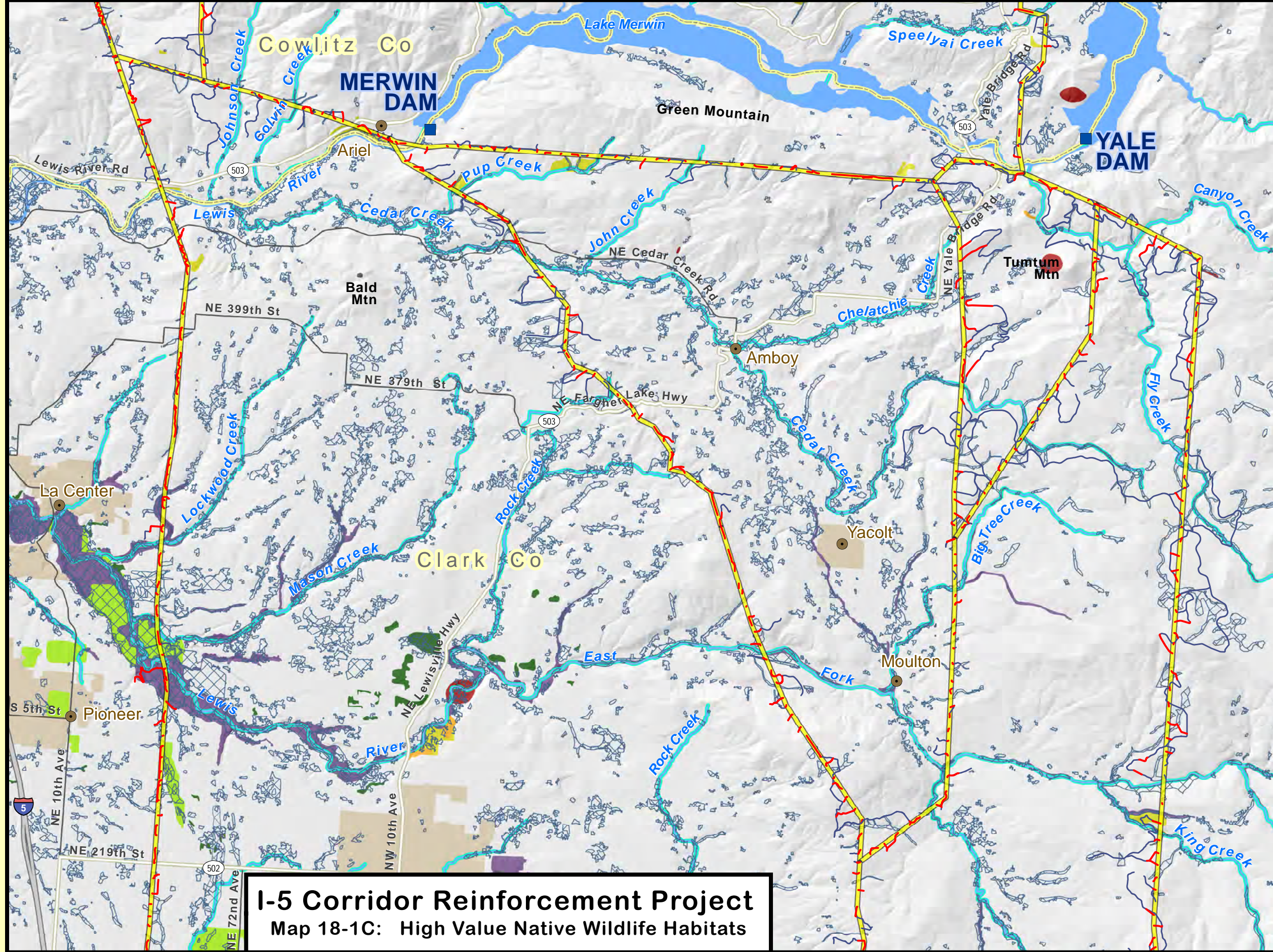
- ### WDFW Priority Areas
- Waterfowl Concentrations
- ### WDFW Priority Habitats*
- Biodiversity Areas and Corridors
 - Talus Slopes
 - Snag-Rich Areas
 - Old-Growth/Mature Forest
 - Herbaceous Bald
 - Cliffs/Bluffs
 - Caves or Cave-Rich Areas
 - Oregon White Oak Woodland
 - Riparian Areas (along rivers and streams)
 - Fresh Water Wetlands
- ### ODFW Conservation Opportunity Area (COA)
- Sandy River COA

*Note: WDFW Priority Habitats include both those that have been documented by WDFW and those that could qualify as WDFW priority habitats based on GIS database analysis or field surveys.



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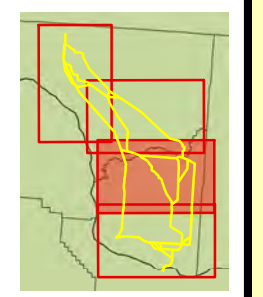
Map 18-1B: High Value Native Wildlife Habitats



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - Urban Area
 - County Boundary
 - State Boundary

- ### WDFW Priority Areas
- Waterfowl Concentrations
- ### WDFW Priority Habitats*
- Biodiversity Areas and Corridors
 - Talus Slopes
 - Snag-Rich Areas
 - Old-Growth/Mature Forest
 - Herbaceous Bald
 - Cliffs/Bluffs
 - Caves or Cave-Rich Areas
 - Oregon White Oak Woodland
 - Riparian Areas (along rivers and streams)
 - Fresh Water Wetlands
- ### ODFW Conservation Opportunity Area (COA)
- Sandy River COA

*Note: WDFW Priority Habitats include both those that have been documented by WDFW and those that could qualify as WDFW priority habitats based on GIS database analysis or field surveys.

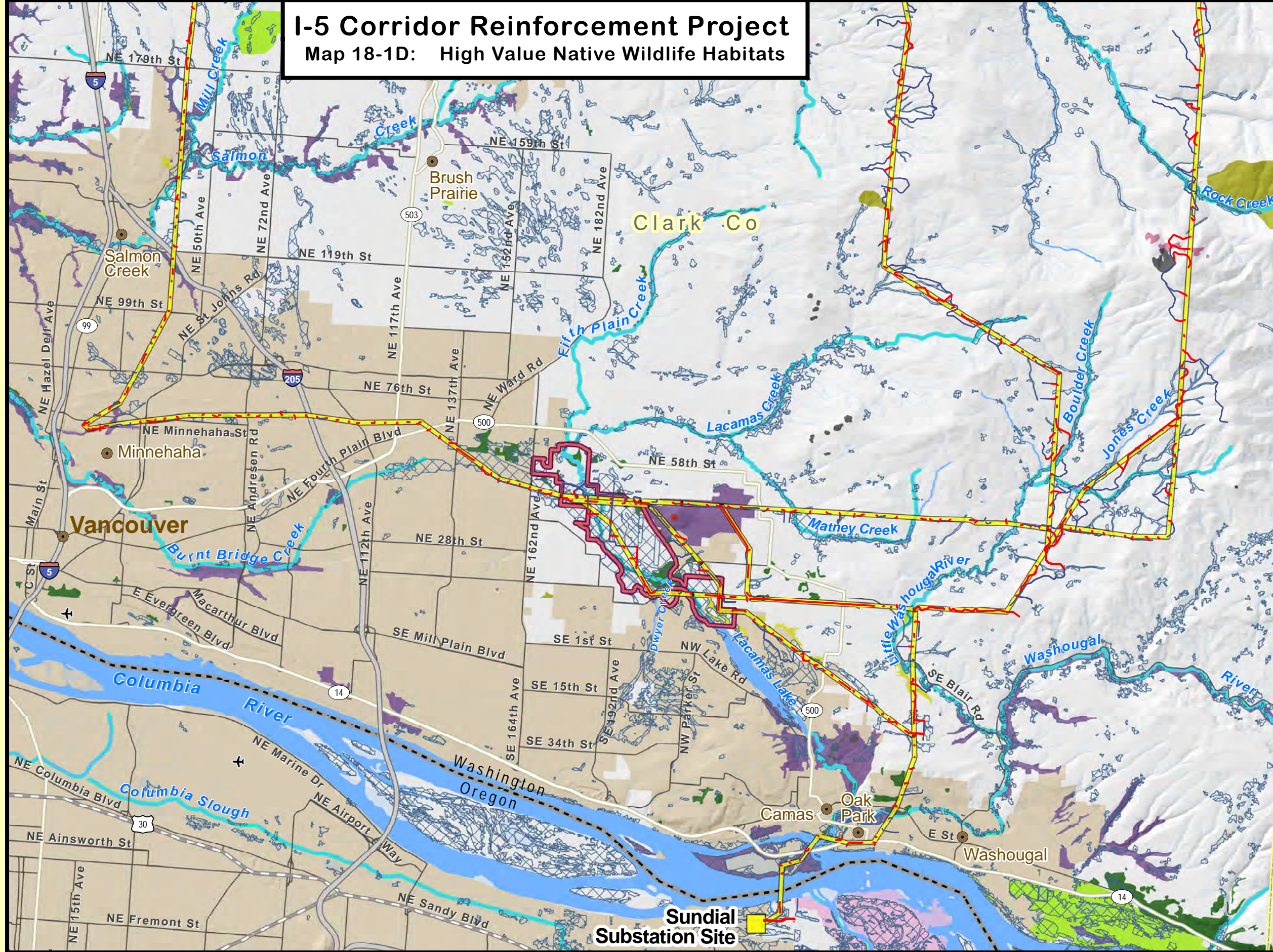


I-5 Corridor Reinforcement Project
Map 18-1C: High Value Native Wildlife Habitats

This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, ODFW 2006, USFWS 2010a, USGS 2011, WDFW 2009c, WNDR 2005, WDNR 2009d and WNHP 2010

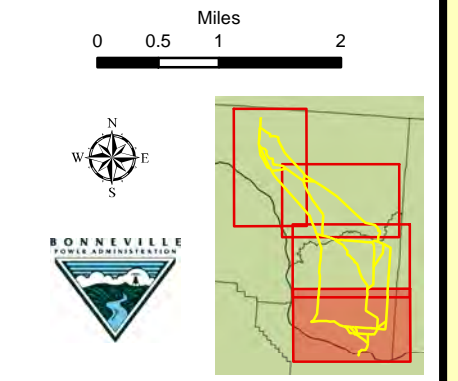
I-5 Corridor Reinforcement Project

Map 18-1D: High Value Native Wildlife Habitats



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - Urban Area
 - County Boundary
 - State Boundary
 - Contains Westside Prairie
 - WDFW Priority Areas**
 - Waterfowl Concentrations
 - WDFW Priority Habitats***
 - Biodiversity Areas and Corridors
 - Talus Slopes
 - Snag-Rich Areas
 - Old-Growth/Mature Forest
 - Herbaceous Bald
 - Cliffs/Bluffs
 - Caves or Cave-Rich Areas
 - Oregon White Oak Woodland
 - Riparian Areas (along rivers and streams)
 - Fresh Water Wetlands
 - ODFW Conservation Opportunity Area (COA)**
 - Sandy River COA

*Note: WDFW Priority Habitats include both those that have been documented by WDFW and those that could qualify as WDFW priority habitats based on GIS database analysis or field surveys.

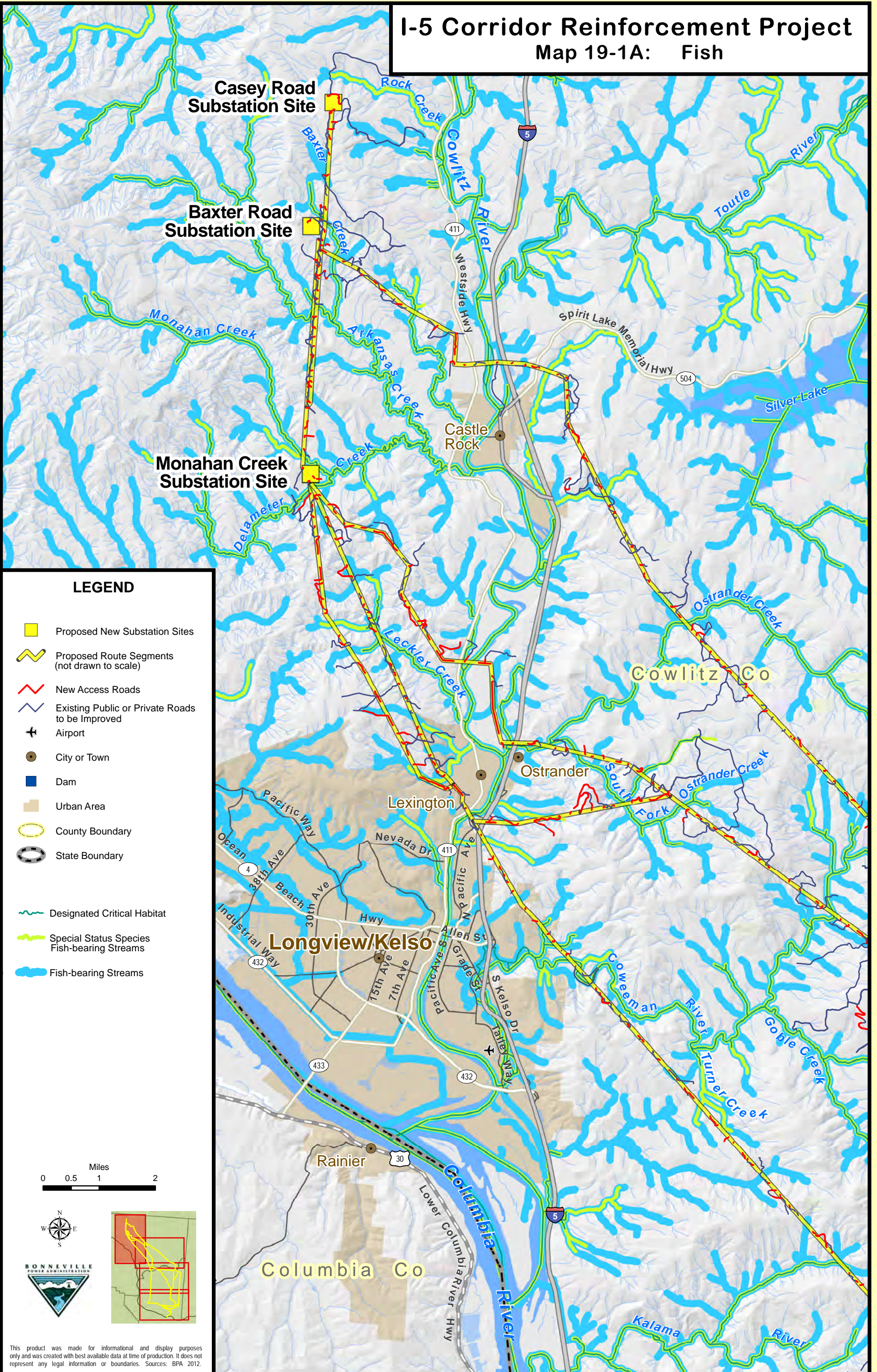


This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012, DEA 2009, Herrera 2010, 2011a, 2011b and 2012, ODFW 2006, USFWS 2010a, USGS 2011, WDFW 2009c, WNDR 2005 and WDNR 2009d.














Map 18-1D: High Value Native Wildlife Habitats

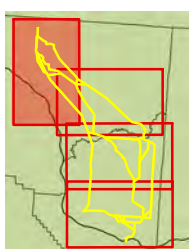
I-5 Corridor Reinforcement Project

Map 19-1A: Fish



LEGEND

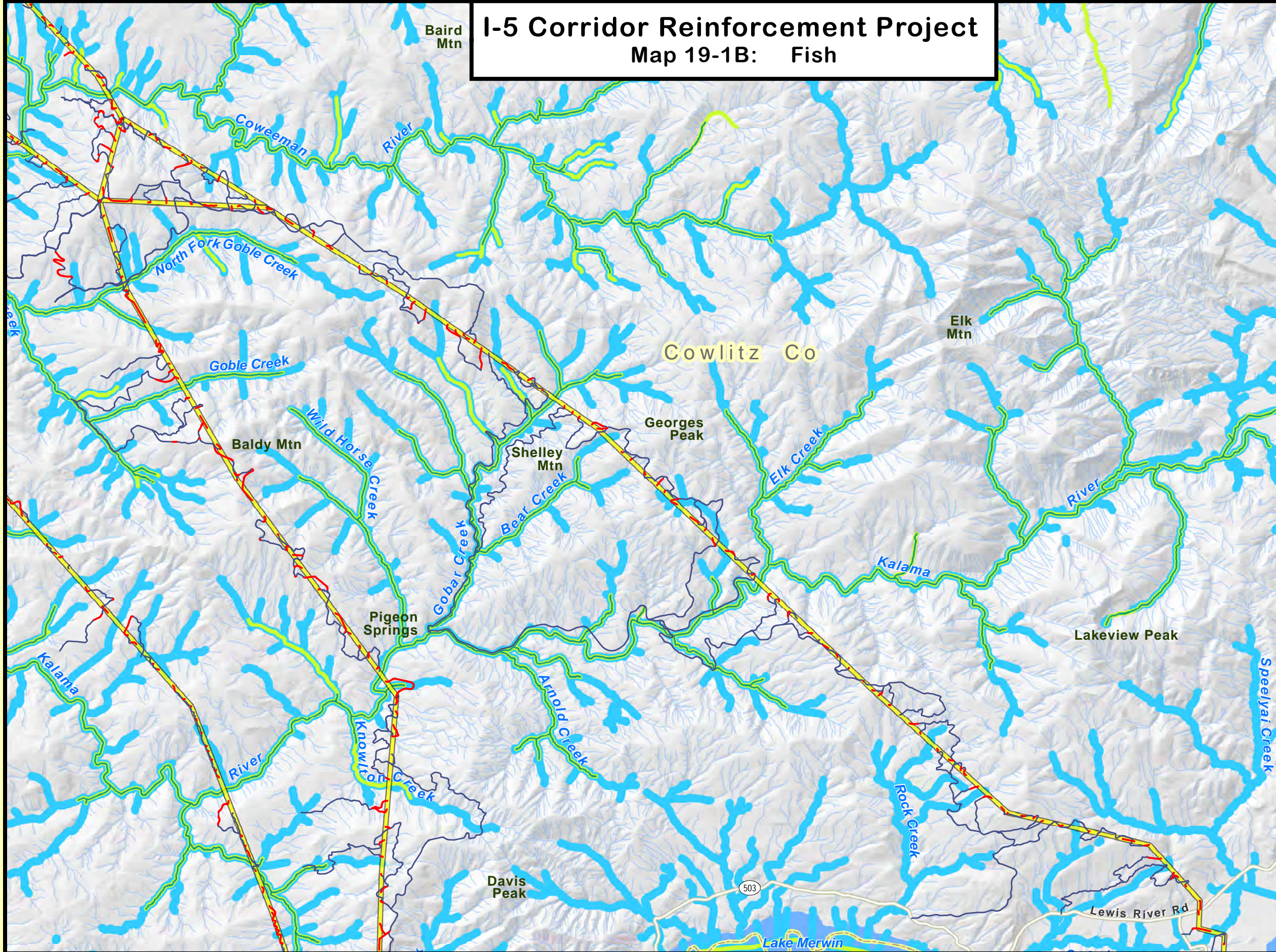
-  Proposed New Substation Sites
-  Proposed Route Segments (not drawn to scale)
-  New Access Roads
-  Existing Public or Private Roads to be Improved
-  Airport
-  City or Town
-  Dam
-  Urban Area
-  County Boundary
-  State Boundary
-  Designated Critical Habitat
-  Special Status Species Fish-bearing Streams
-  Fish-bearing Streams



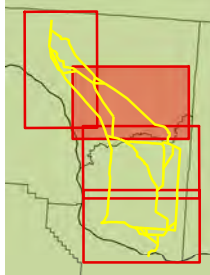
This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012.

I-5 Corridor Reinforcement Project

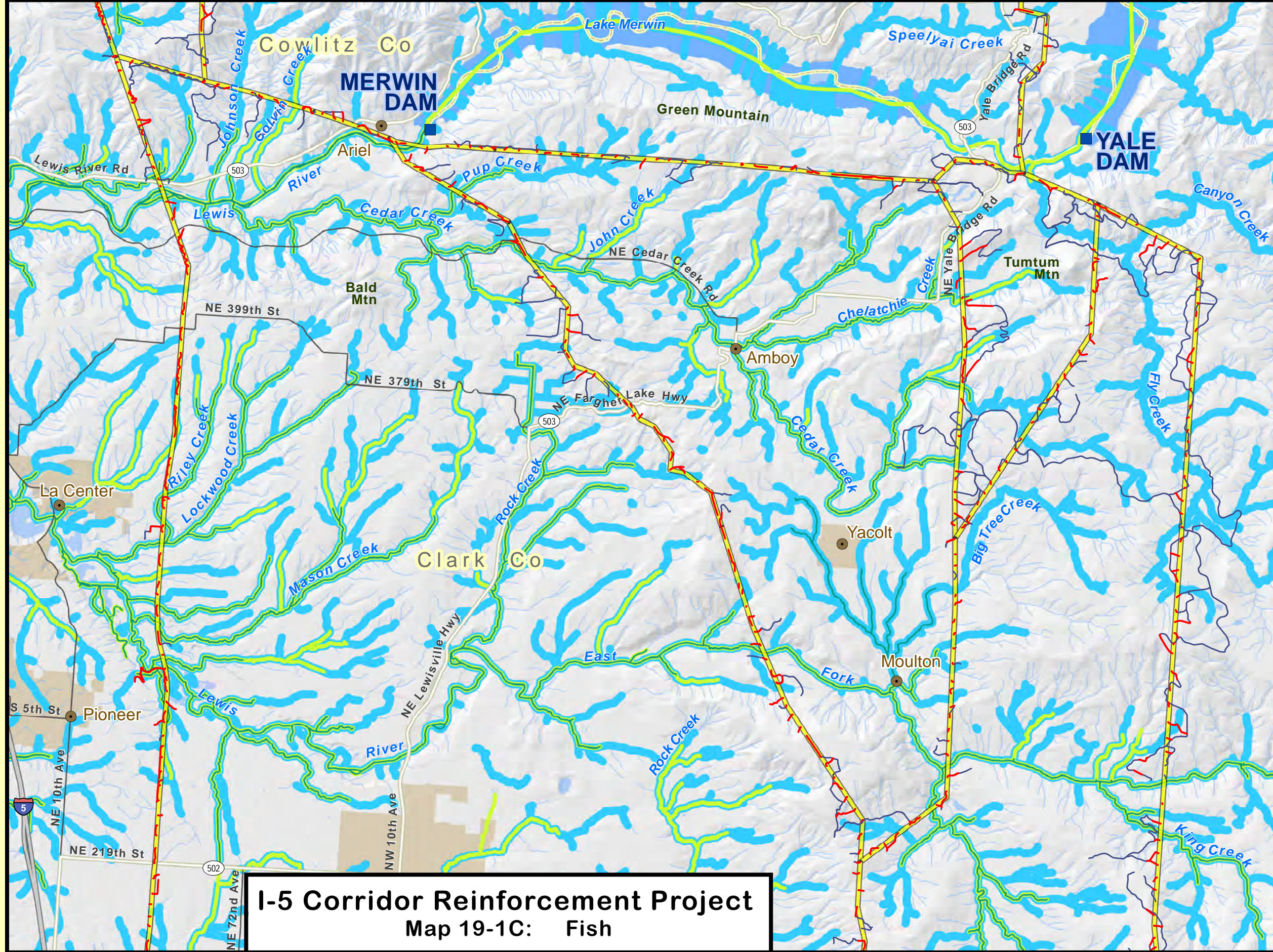
Map 19-1B: Fish



- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - Urban Area
 - County Boundary
 - State Boundary
 - Designated Critical Habitat
 - Special Status Species Fish-bearing Streams
 - Fish-bearing Streams



This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012.



LEGEND

- Proposed New Substation Sites
- Proposed Route Segments (not drawn to scale)
- New Access Roads
- Existing Public or Private Roads to be Improved
- Airport
- City or Town
- Dam
- Urban Area
- County Boundary
- State Boundary
- Designated Critical Habitat
- Special Status Species Fish-bearing Streams
- Fish-bearing Streams

Miles
0 0.5 1 2

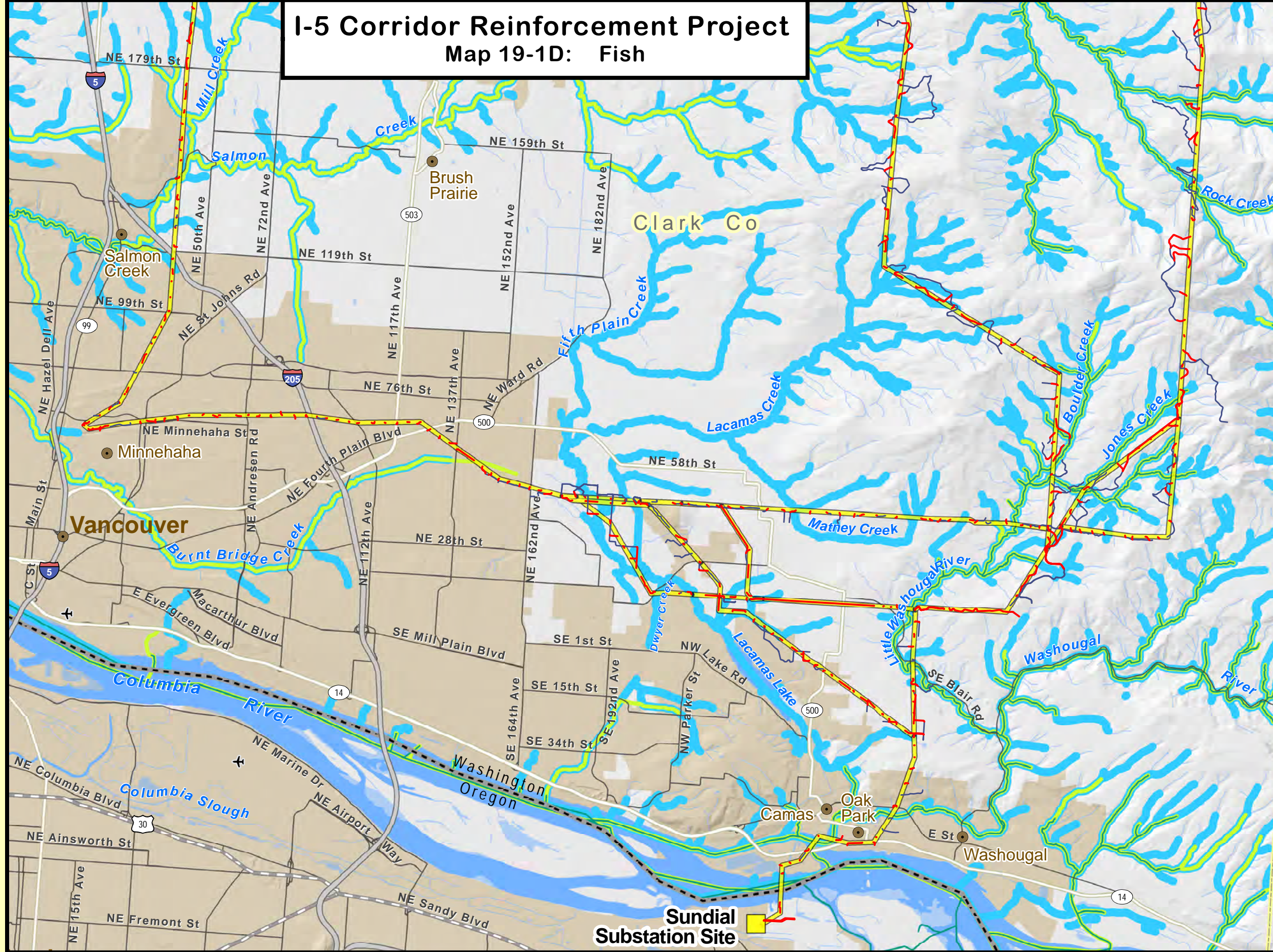
BONNEVILLE
POWER ADMINISTRATION

I-5 Corridor Reinforcement Project
Map 19-1C: Fish

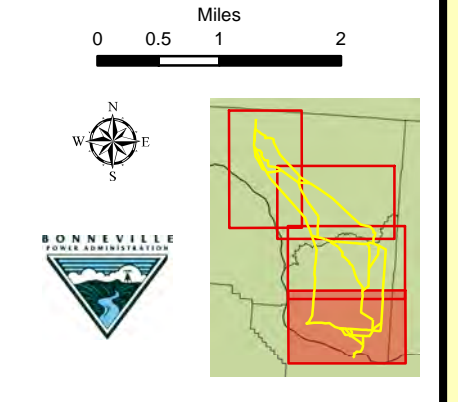
This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012.

I-5 Corridor Reinforcement Project

Map 19-1D: Fish



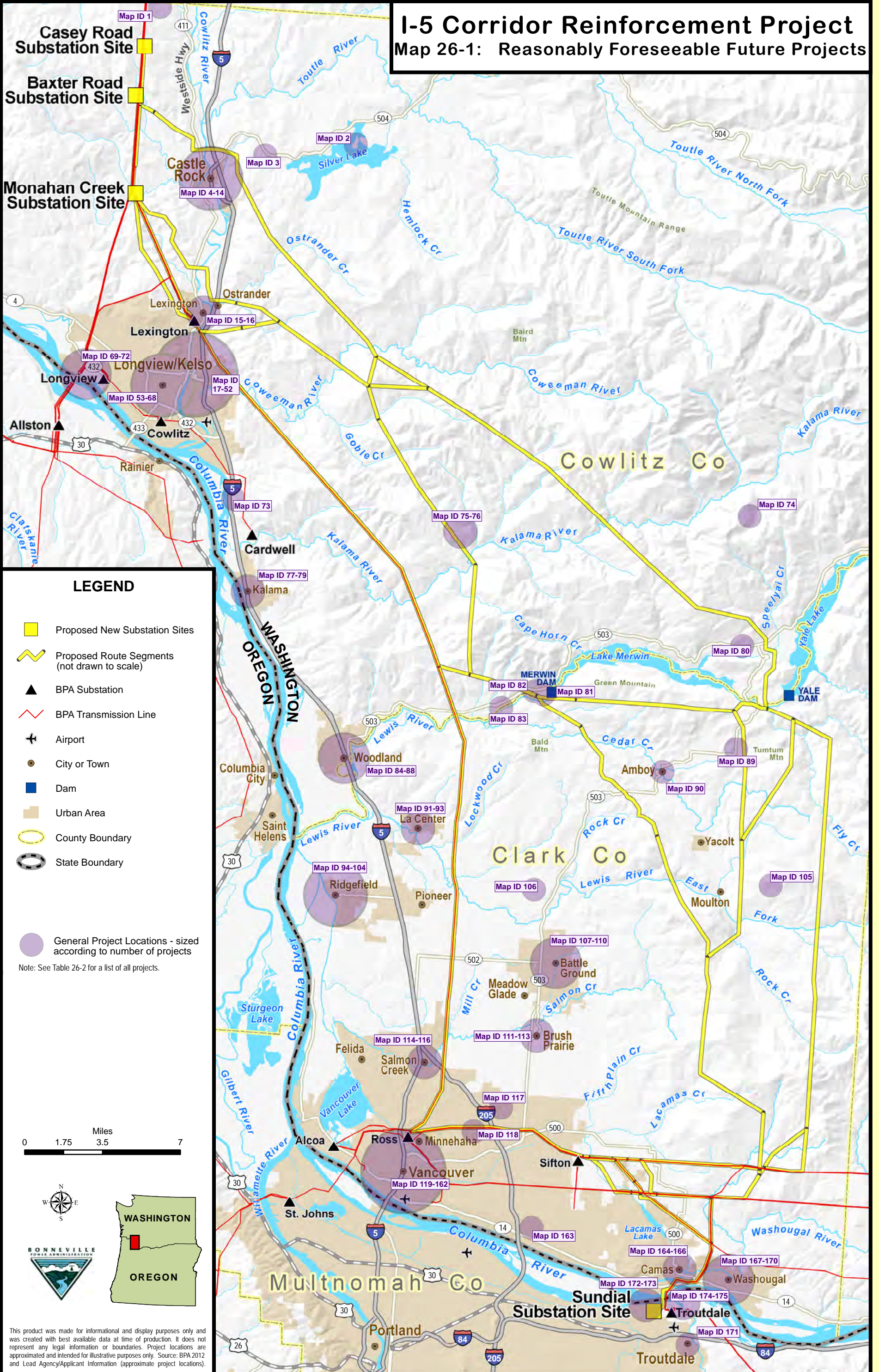
- ### LEGEND
- Proposed New Substation Sites
 - Proposed Route Segments (not drawn to scale)
 - New Access Roads
 - Existing Public or Private Roads to be Improved
 - Airport
 - City or Town
 - Dam
 - Urban Area
 - County Boundary
 - State Boundary
 - Designated Critical Habitat
 - Special Status Species Fish-bearing Streams
 - Fish-bearing Streams



This product was made for informational and display purposes only and was created with best available data at time of production. It does not represent any legal information or boundaries. Sources: BPA 2012.

I-5 Corridor Reinforcement Project

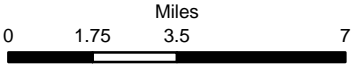
Map 26-1: Reasonably Foreseeable Future Projects



LEGEND

- Proposed New Substation Sites
- Proposed Route Segments (not drawn to scale)
- BPA Substation
- BPA Transmission Line
- Airport
- City or Town
- Dam
- Urban Area
- County Boundary
- State Boundary

General Project Locations - sized according to number of projects.
 Note: See Table 26-2 for a list of all projects.



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