

Appendix A – Maps

Project Area

ENERGY GATEWAY SOUTH TRANSMISSION PROJECT BIOLOGICAL ASSESSMENT

Project Features

- Project Area Boundary
- Substation (Project Terminal)
- Agency-preferred Alternative Route
- Link Number
- Link Node
- 345kV Proposed Relocation (Inset A)
- 345kV Proposed Rebuild (Segment 4a and 4b - Inset B)
- 345kV Proposed Reroute (Segment 4c - Inset B)
- Series Compensation Station Siting Area

Land Ownership

- Bureau of Land Management
- Bureau of Reclamation
- Indian Reservation
- National Park Service
- U.S. Department of Defense
- U.S. Fish and Wildlife Service
- U.S. Forest Service
- State Land
- Private Land

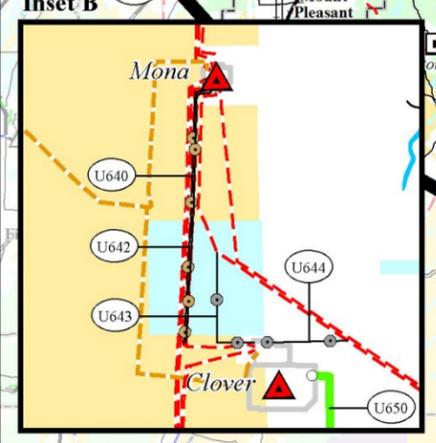
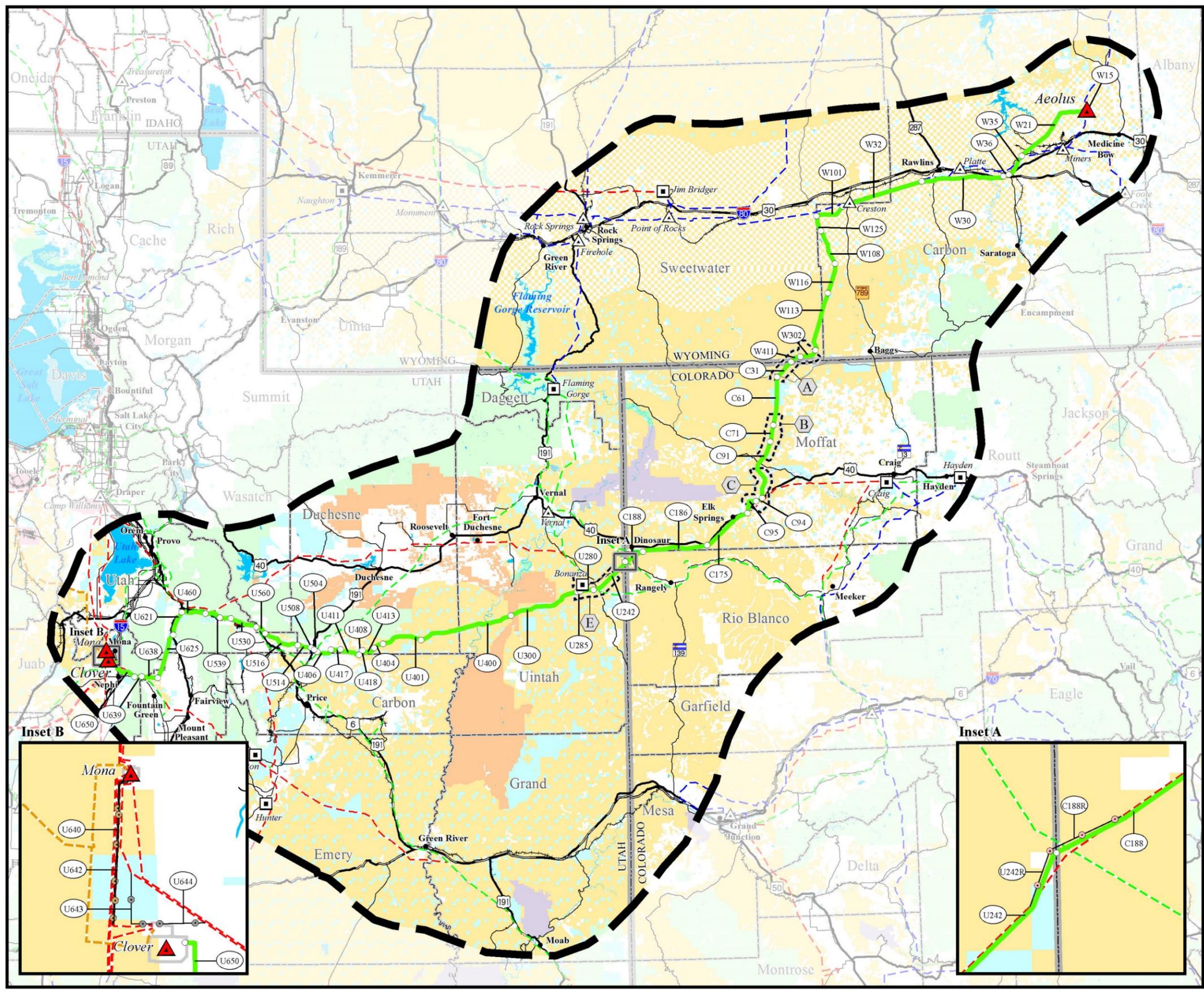
General Reference

- City or Town
- Substation
- Power Plant
- 500kV Transmission Line
- 345kV Transmission Line
- 230kV Transmission Line
- 138kV Transmission Line
- Railroad
- Interstate Highway
- U.S. Highway
- State Highway
- Other Road
- Lake or Reservoir
- State Boundary
- County Boundary

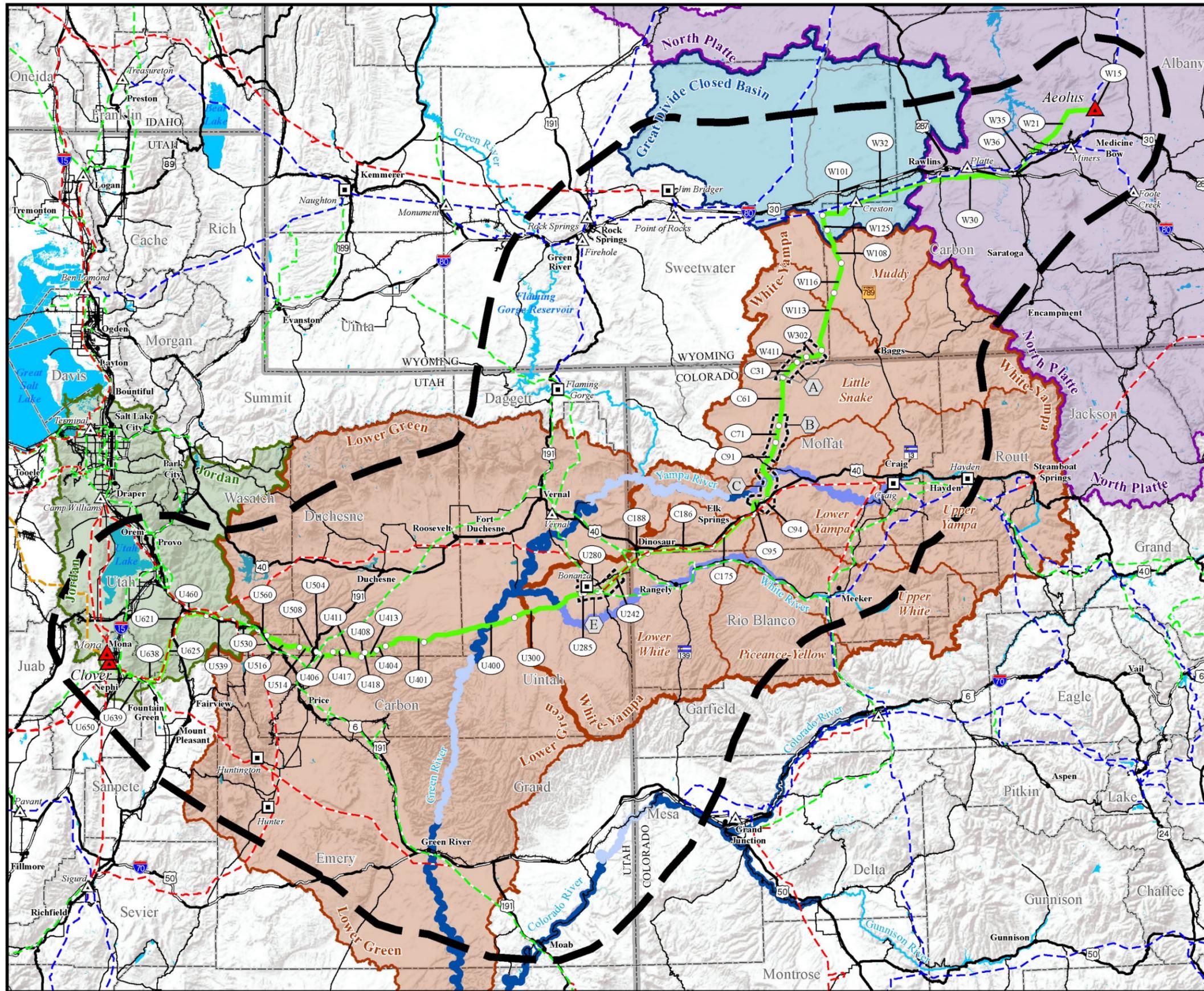
SOURCES:
 Land Jurisdiction, BLM 2013; City or Town, ESRI 2013;
 Transmission Lines and Substations as digitized by EPG, POWERmap Platts 2009;
 Highways, Roads, and Railroads, ESRI 2013; Water Features, ESRI 2008, USGS 2010;
 State and County Boundaries, ESRI 2013

NOTES:
 • The alternative routes and series compensation station siting areas shown on this map are draft and may be revised and/or refined throughout the development of the Project.
 • Substation symbols do not necessarily represent precise locations.

Alternative routes last revised: September 23, 2014
 July 2015



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Map 2

Hydrologic Units Supporting ESA-listed Species

ENERGY GATEWAY SOUTH TRANSMISSION PROJECT
BIOLOGICAL ASSESSMENT

Hydrologic Units (HUC) and Designated Critical Habitat

Basins (6-digit HUCs)	White-Yampa Subbasin (8-digit HUC)
North Platte Basin	Colorado Pikeminnow Critical Habitat
Great Divide Closed Basin	Razorback Sucker and Colorado Pikeminnow Critical Habitat
Colorado River Basins (White-Yampa and Lower Green)	Bonytail Chub, Humpback Chub, Razorback Sucker, and Colorado Pikeminnow Critical Habitat
Jordan Basin	

Project Features

Project Area Boundary	Link Number
Substation (Project Terminal)	Link Node
Agency-preferred Alternative Route	Series Compensation Station Siting Area

General Reference

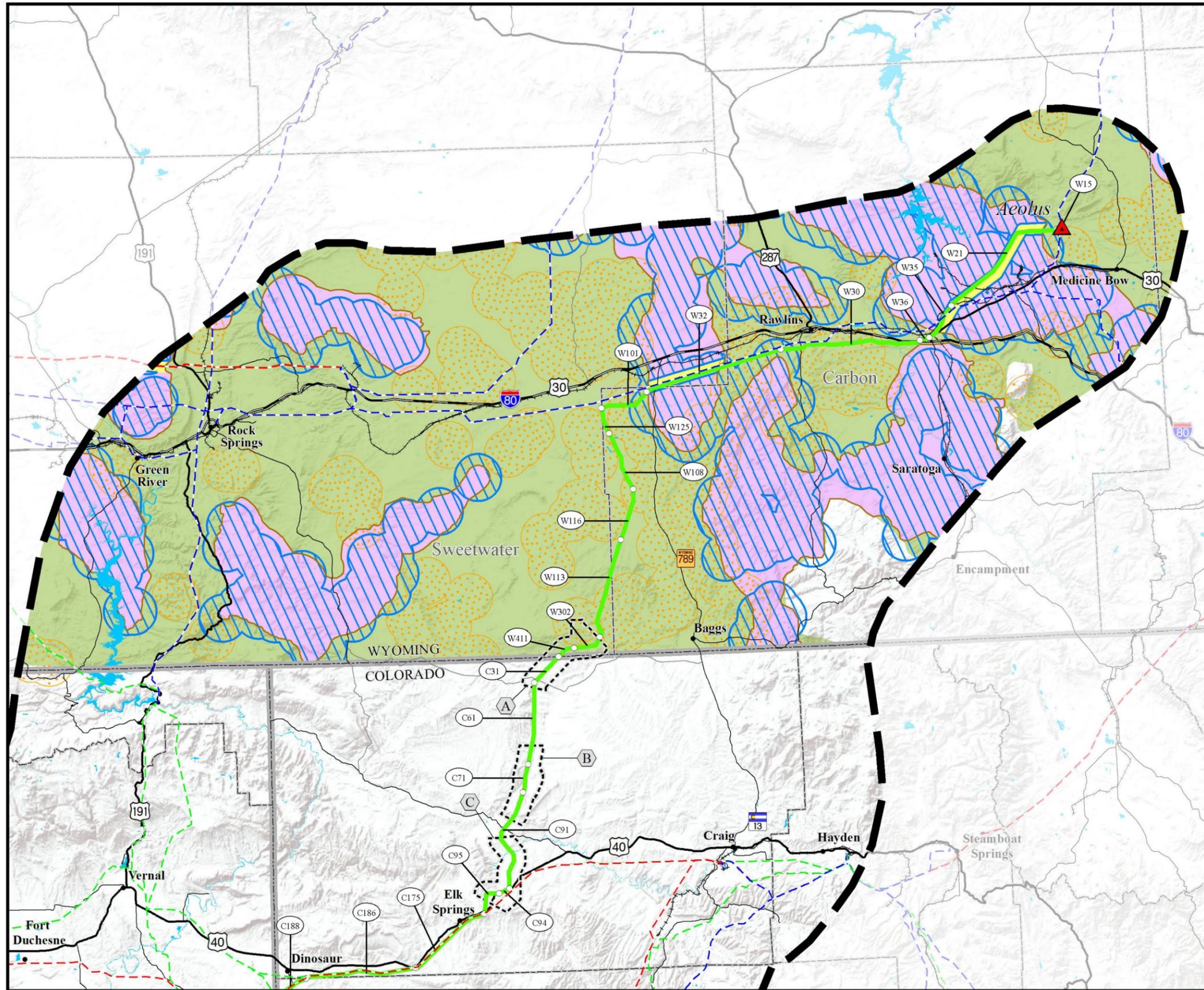
City or Town	Interstate Highway
Substation	U.S. Highway
Power Plant	State Highway
500kV Transmission Line	Other Road
345kV Transmission Line	Lake or Reservoir
230kV Transmission Line	Major River
138kV Transmission Line	State Boundary
Railroad	County Boundary

SOURCES:
 Colorado River Fish Critical Habitat, FWS 2011;
 Basin and Subbasin Hydrologic Units, USGS 2009; City or Town, ESRI 2013;
 Transmission Lines and Substations as digitized by EPG, POWERmap Platts 2009;
 Series Compensation Station Siting Areas, Rocky Mountain Power 2014;
 Highways, Roads, and Railroads, ESRI 2013; Water Features, ESRI 2008, USGS 2010;
 State and County Boundaries, ESRI 2013

NOTES:
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July 2015

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Map 3
Greater Sage-grouse Wyoming

ENERGY GATEWAY SOUTH TRANSMISSION PROJECT
BIOLOGICAL ASSESSMENT

Greater Sage-grouse¹

Greater Sage-grouse Priority Area for Conservation	Greater Sage-grouse Habitat within 4 miles of Leks Located outside Core Areas or Priority Habitat
Greater Sage-grouse Core Area or Priority Habitat	Greater Sage-grouse General Habitat
Greater Sage-grouse Habitat within 4 miles of Leks Located in Core Areas or Priority Habitat	Greater Sage-grouse Transmission Line Corridors Designated in Wyoming Executive Order 2011-5

Project Features

Project Area Boundary	Link Number
Substation (Project Terminal)	Link Node
Agency-preferred Alternative Route	Series Compensation Station Siting Area

General Reference

City or Town	Interstate Highway
345kV Transmission Line	U.S. Highway
230kV Transmission Line	State Highway
138kV Transmission Line	Other Road
Railroad	Lake or Reservoir
	State Boundary
	County Boundary

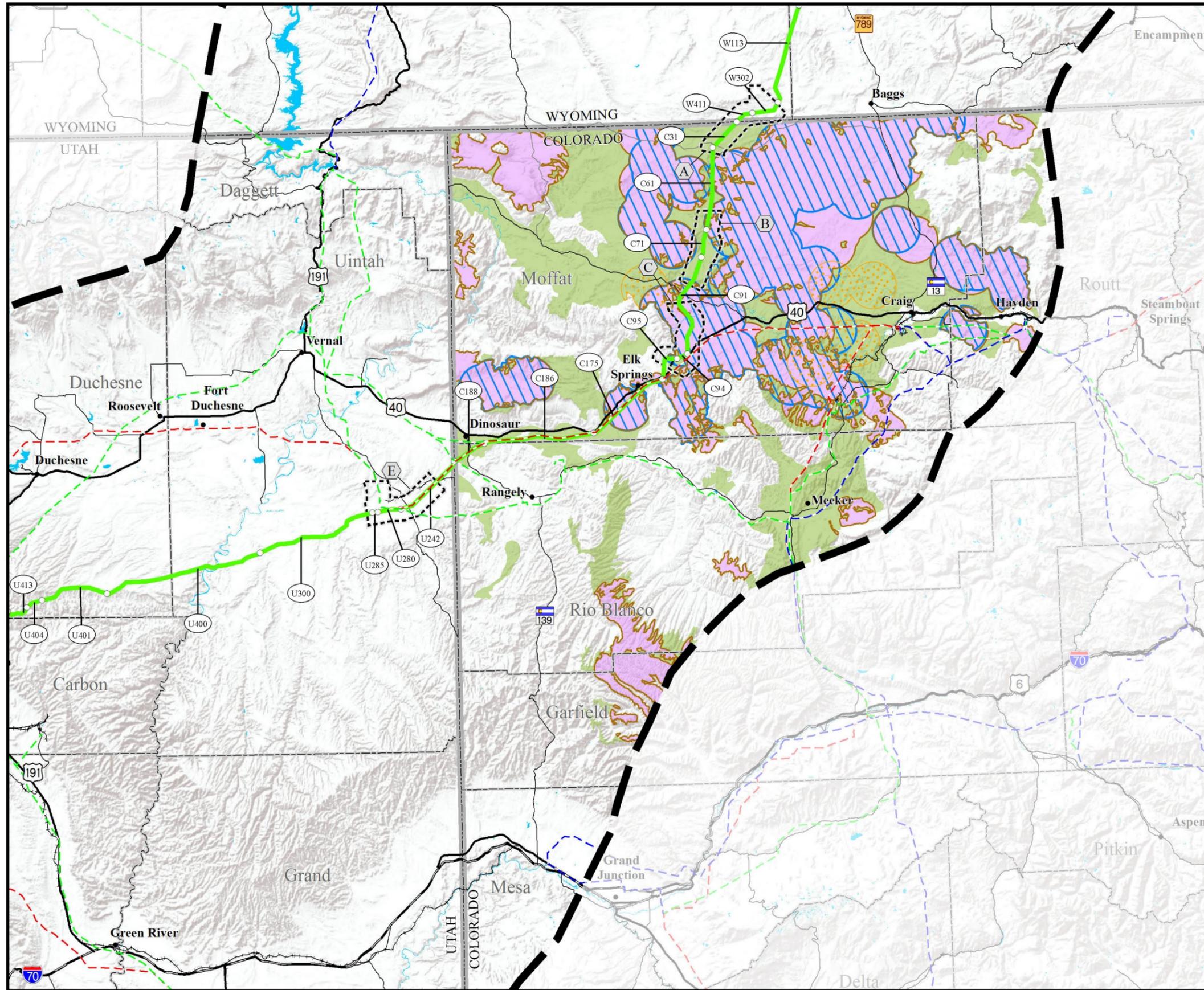
SOURCES:
Sage-grouse Priority Area for Conservation, BLM 2013; Sage-grouse Leks, WGFD 2013; Sage-grouse Core Areas Wyoming, WGFD 2010; Sage-grouse Western U.S. Range, Washington Department of Fish and Wildlife 2002; Sage-grouse Habitat Protection Corridors, WGFD 2010; City or Town, ESRI 2013; Transmission Lines and Substations as digitized by EPG, POWERmap Platts 2009; Highways, Roads, and Railroads, ESRI 2013; Water Features, ESRI 2008, USGS 2010; State and County Boundaries, ESRI 2013

NOTES:
¹Greater Sage-grouse habitat is shown only within the Project area boundary.
• The alternative routes and series compensation station siting areas shown on this map are draft and may be revised and/or refined throughout the development of the Project.
• Substation symbols do not necessarily represent precise locations.

Alternative routes last revised: September 23, 2014
July 2015

Miles

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Map 4
**Greater Sage-grouse
Colorado**

ENERGY GATEWAY SOUTH
TRANSMISSION PROJECT
BIOLOGICAL ASSESSMENT

Greater Sage-grouse¹

Greater Sage-grouse Priority Area for Conservation	Greater Sage-grouse Habitat within 4 miles of Leks Located outside Core Areas or Priority Habitat
Greater Sage-grouse Core Area or Priority Habitat	Greater Sage-grouse General Habitat
Greater Sage-grouse Habitat within 4 miles of Leks Located in Core Areas or Priority Habitat	

Project Features

Project Area Boundary	Link Node
Agency-preferred Alternative Route	Series Compensation Station Siting Area
Link Number	

General Reference

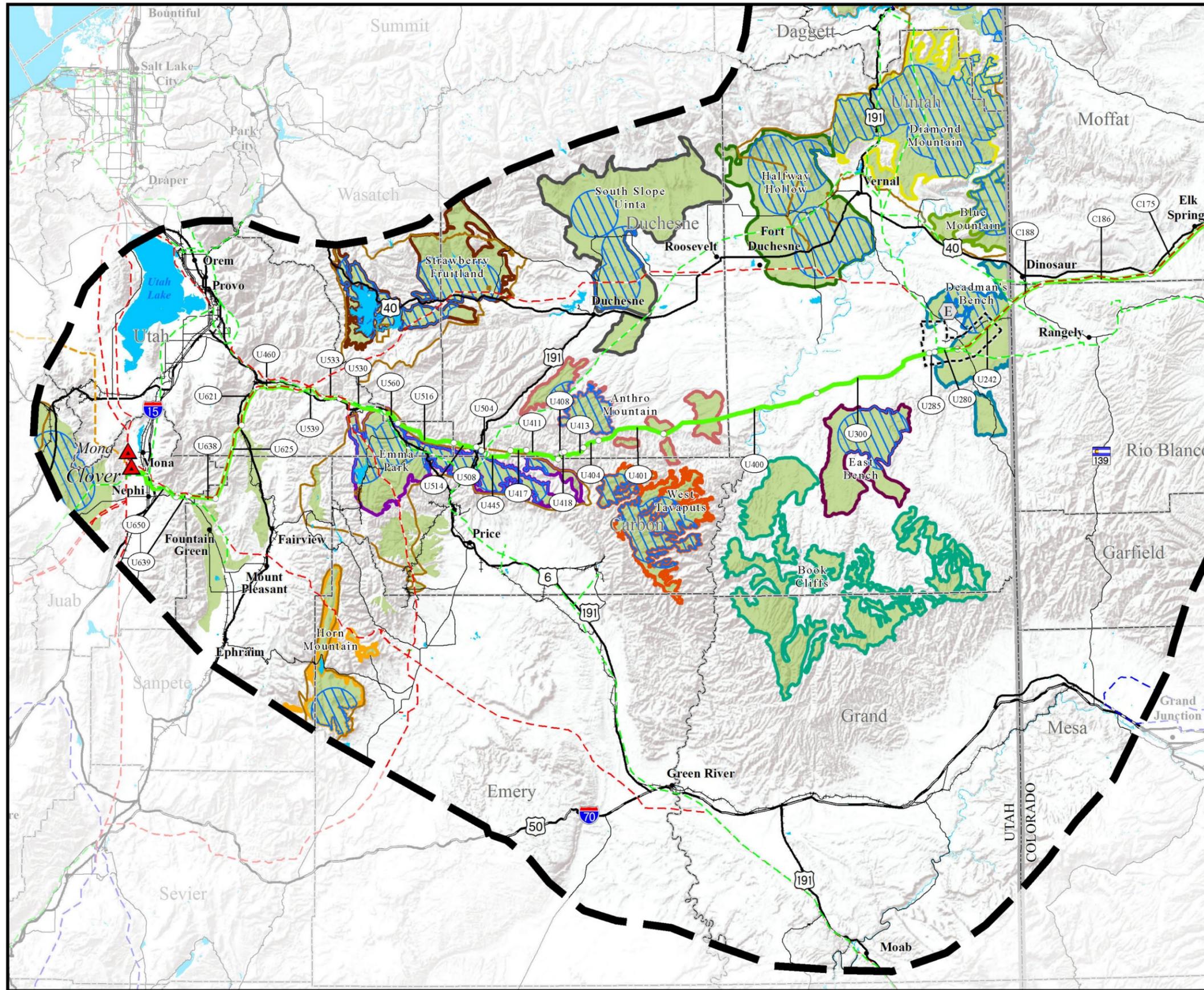
City or Town	Interstate Highway
345kV Transmission Line	U.S. Highway
230kV Transmission Line	State Highway
138kV Transmission Line	Other Road
Railroad	Lake or Reservoir
	State Boundary
	County Boundary

SOURCES:
Sage-grouse Priority Area for Conservation, BLM 2013;
Sage-grouse Leks, CPW 2014; Sage-grouse Habitat Colorado, CPW 2012;
Sage-grouse Linkages Colorado, CPW 2012; City or Town, ESRI 2013;
Transmission Lines and Substations as digitized by EPG, POWERmap Platts 2009;
Highways, Roads, and Railroads, ESRI 2013; Water Features, ESRI 2008, USGS 2010;
State and County Boundaries, ESRI 2013

NOTES:
¹Greater Sage-grouse habitat is shown only within the Project area boundary.
• The alternative routes and series compensation station siting areas shown on this map are draft and may be revised and/or refined throughout the development of the Project.

Alternative routes last revised: September 23, 2014
July 2015

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Map 5
**Greater Sage-grouse
Utah**

ENERGY GATEWAY SOUTH
TRANSMISSION PROJECT
BIOLOGICAL ASSESSMENT

Greater Sage-grouse¹

Greater Sage-grouse Priority Area for Conservation	Greater Sage-grouse Habitat within 4 miles of Leaks Located in Core Areas or Priority Habitat
Greater Sage-grouse General Habitat	

Utah Greater Sage-grouse Populations

Anthro Mountain	Emma Park
Blue Mountain	Halfway Hollow
Book Cliffs	Horn Mountain
Deadman's Bench	South Slope Uinta
Diamond Mountain	Strawberry Fruitland
East Bench	West Tavaputs

Project Features

Project Area Boundary	Link Number
Substation (Project Terminal)	Link Node
Agency-preferred Alternative Route	Series Compensation Station Siting Area

General Reference

City or Town	Interstate Highway
500kV Transmission Line	U.S. Highway
345kV Transmission Line	State Highway
230kV Transmission Line	Other Road
138kV Transmission Line	Lake or Reservoir
Railroad	State Boundary
	County Boundary

SOURCES:
Sage-grouse Priority Area for Conservation, BLM 2013;
Sage-grouse Occupied Habitat Utah, UDWR 2011; Sage-grouse Leaks, UDWR 2014;
Greater Sage-grouse Population Boundaries Utah, BLM 2013;
City or Town, ESRI 2013;
Transmission Lines and Substations as digitized by EPG, POWERmap Platts 2009;
Highways, Roads, and Railroads, ESRI 2013; Water Features, ESRI 2008, USGS 2010;
State and County Boundaries, ESRI 2013

NOTES:
¹Greater Sage-grouse habitat is shown only within the Project area boundary.
• Substation symbols do not necessarily represent precise locations.

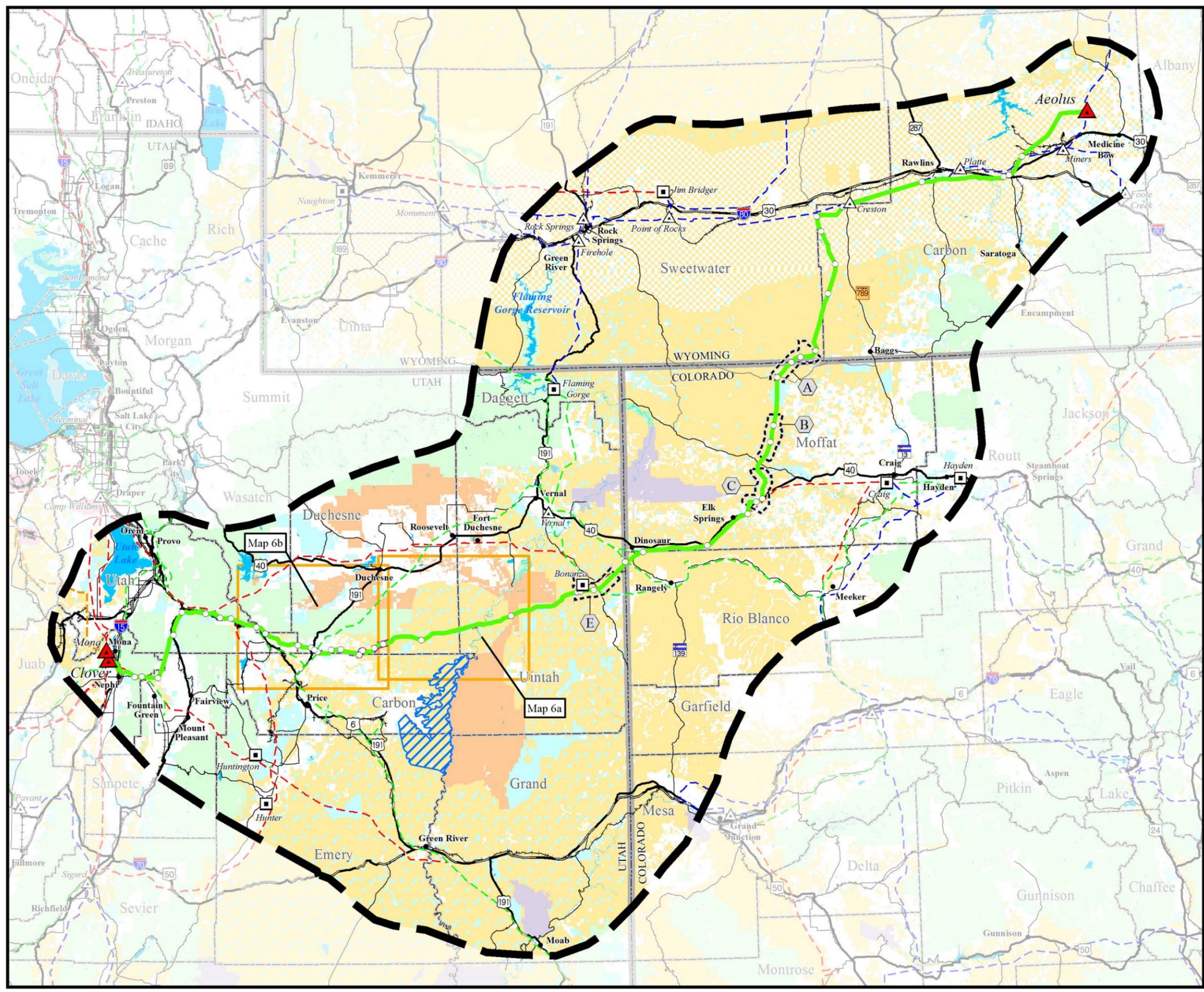
Alternative routes last revised: September 23, 2014
July 2015

Miles

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Mexican Spotted Owl

ENERGY GATEWAY SOUTH TRANSMISSION PROJECT BIOLOGICAL ASSESSMENT



Mexican Spotted Owl

Critical Habitat ¹	Modeled Habitat ²
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BLM Vernal Field Office Habitat Suitability Assessment Rating²

Good	Poor
Fair	Unsuitable

Project Features

Project Area Boundary	Link Node
Substation (Project Terminal)	Series Compensation Station Siting Area
Agency-preferred Alternative Route	

Land Ownership

Bureau of Land Management	U.S. Fish and Wildlife Service
Bureau of Reclamation	U.S. Forest Service
Indian Reservation	State Land
National Park Service	Private Land
U.S. Department of Defense	

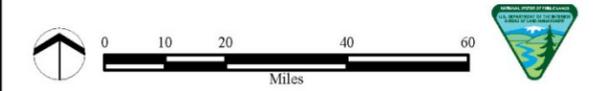
General Reference

City or Town	Interstate Highway
Substation	U.S. Highway
Power Plant	State Highway
500kV Transmission Line	Other Road
345kV Transmission Line	Lake or Reservoir
230kV Transmission Line	State Boundary
138kV Transmission Line	County Boundary
Railroad	

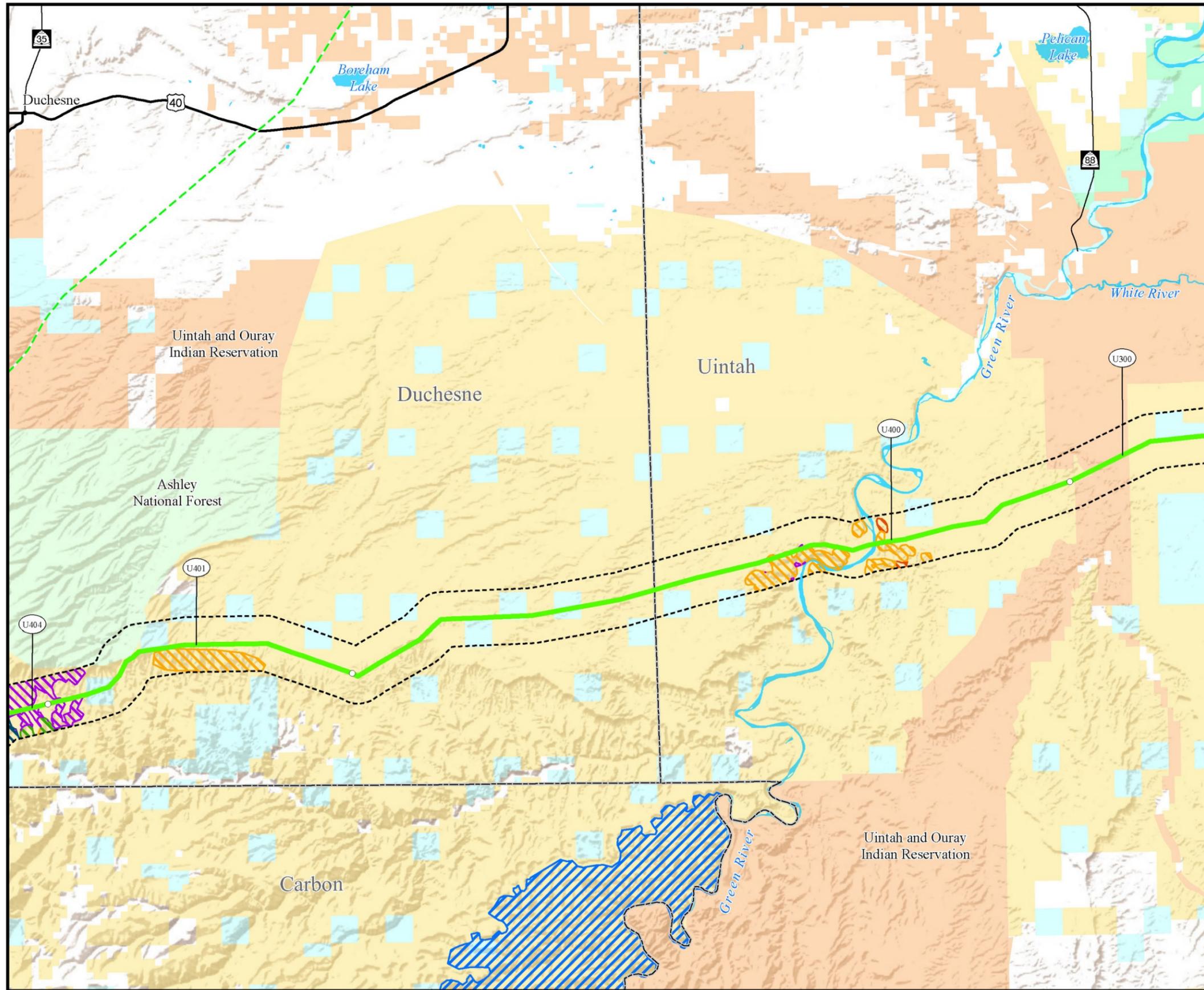
SOURCES:
 Mexican Spotted Owl Modeled Habitat, EPG 2014;
 Mexican Spotted Owl Critical Habitat, U.S. Fish and Wildlife Service 2010;
 Land Jurisdiction, BLM 2013; City or Town, ESRI 2013;
 Transmission Lines and Substations as digitized by EPG, POWERmap Platts 2009;
 Highways, Roads, and Railroads, ESRI 2013; Water Features, ESRI 2008, USGS 2010;
 State and County Boundaries, ESRI 2013

NOTES:
¹Mexican spotted owl critical habitat is only shown within the project area boundary.
²Mexican spotted owl modeled habitat and habitat suitability assessment ratings are only shown within the 2-mile-wide biological resources study corridor.
 • The alternative routes and series compensation station siting areas shown on this map are draft and may be revised and/or refined throughout the development of the Project.
 • Substation symbols do not necessarily represent precise locations.

Alternative routes last revised: September 23, 2014
 July 2015



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Map 6a

Mexican Spotted Owl

ENERGY GATEWAY SOUTH TRANSMISSION PROJECT BIOLOGICAL ASSESSMENT

Mexican Spotted Owl

- Critical Habitat
- Modeled Habitat¹
- BLM Vernal Field Office Habitat Suitability Assessment Rating¹**
- Good
- Fair
- Poor
- Unsuitable

Project Features

- Study Corridor
- Agency-preferred Alternative Route
- Link Number
- Link Node

Land Ownership

- Bureau of Land Management
- Indian Reservation
- U.S. Fish and Wildlife Service
- U.S. Forest Service
- State Land
- Private Land

General Reference

- City or Town
- 345kV Transmission Line
- 138kV Transmission Line
- Railroad
- Interstate Highway
- U.S. Highway
- State Highway
- Other Road
- Lake or Reservoir
- County Boundary

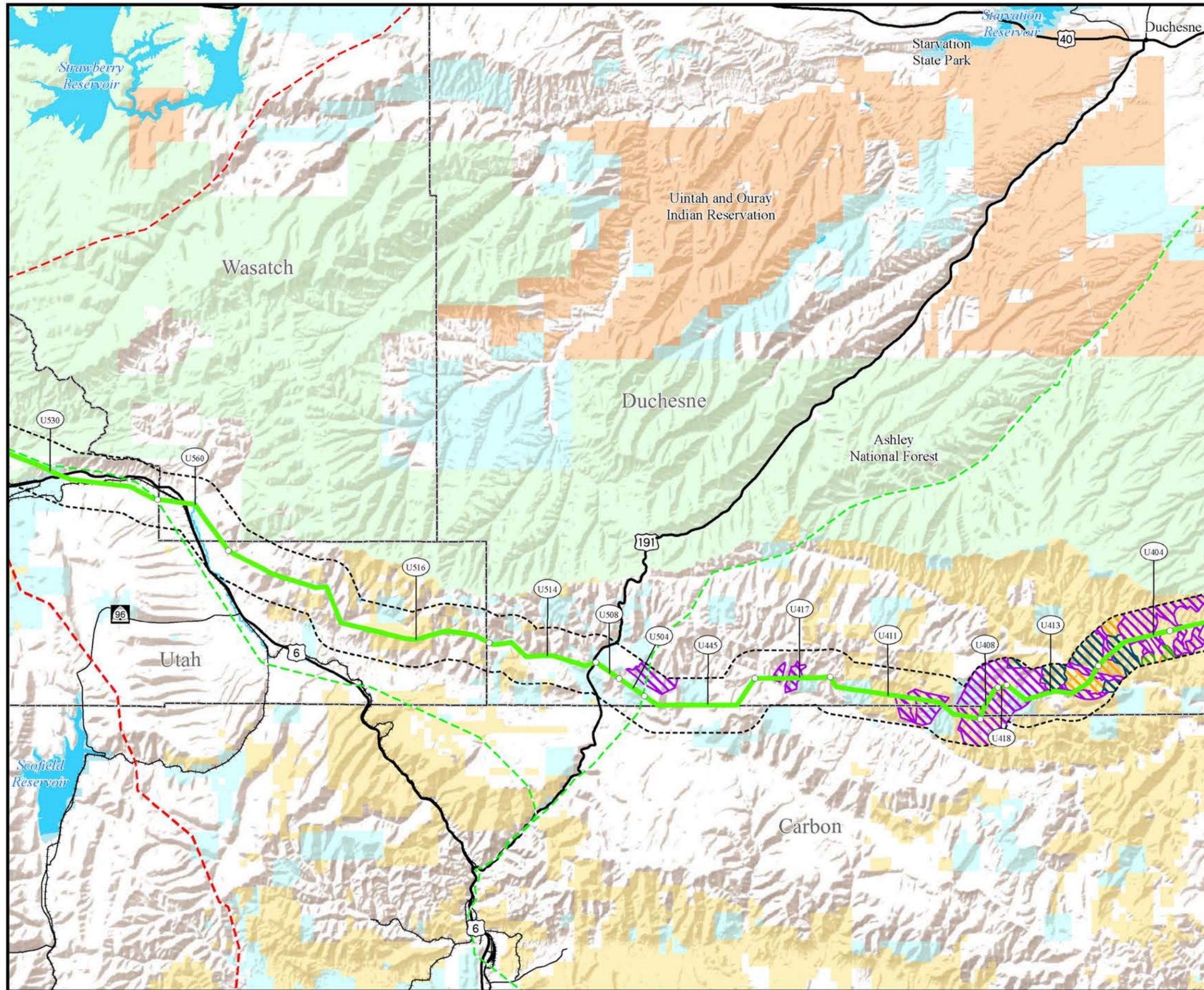
SOURCES:
 Mexican Spotted Owl Modeled Habitat, EPG 2014;
 Mexican Spotted Owl Critical Habitat, U.S. Fish and Wildlife Service 2010;
 Land Jurisdiction, BLM 2013; City or Town, ESRI 2013;
 Transmission Lines and Substations as digitized by EPG, POWERmap Platts 2009;
 Highways, Roads, and Railroads, ESRI 2013; Water Features, ESRI 2008, USGS 2010;
 State and County Boundaries, ESRI 2013

NOTES:
¹Mexican spotted owl modeled habitat and habitat suitability rating assessments are only shown within the 2-mile-wide biological resources study corridor.
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Alternative routes last revised: September 23, 2014
 July 2015



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Map 6b

Mexican Spotted Owl

ENERGY GATEWAY SOUTH TRANSMISSION PROJECT BIOLOGICAL ASSESSMENT

Mexican Spotted Owl

Critical Habitat	Modeled Habitat ¹
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BLM Vernal Field Office Habitat Suitability Assessment Rating¹

Good	Poor
Fair	Unsuitable

Project Features

Study Corridor	Link Number
Agency-preferred Alternative Route	Link Node

Land Ownership

Bureau of Land Management	U.S. Forest Service
Indian Reservation	State Land
U.S. Fish and Wildlife Service	Private Land

General Reference

City or Town	Interstate Highway
345kV Transmission Line	U.S. Highway
138kV Transmission Line	State Highway
Railroad	Other Road
	Lake or Reservoir
	County Boundary

SOURCES:
 Mexican Spotted Owl Modeled Habitat, EPG 2014;
 Mexican Spotted Owl Critical Habitat, U.S. Fish and Wildlife Service 2010;
 Land Jurisdiction, BLM 2013; City or Town, ESRI 2013;
 Transmission Lines and Substations as digitized by EPG, POWERmap Platts 2009;
 Highways, Roads, and Railroads, ESRI 2013; Water Features, ESRI 2008, USGS 2010;
 State and County Boundaries, ESRI 2013

NOTES:
¹Mexican spotted owl modeled habitat and habitat suitability rating assessments are only shown within the 2-mile-wide biological resources study corridor.
 • The alternative routes shown on this map are draft and may be revised and/or refined throughout the development of the Project.

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