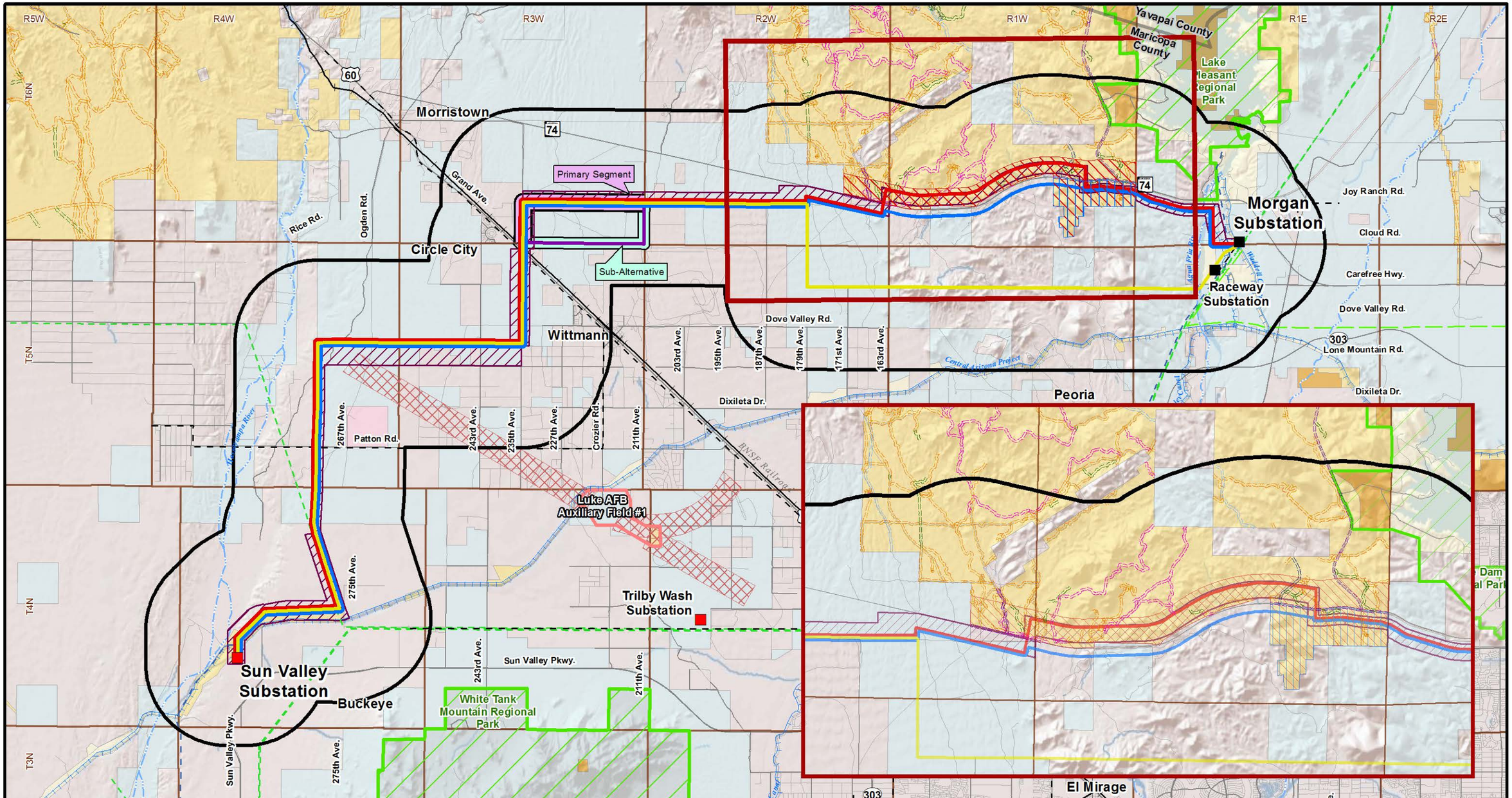


Legend

- Sun Valley to Morgan Proposed Action Right-of-Way
- Alternative 1 Proposed Action with Additional Corridor
- Alternative 2 South of SR 74
- Alternative 2 Corridor South of SR74
- Alternative 3 Carefree Highway
- Sub-alternative: State Trust Land Route Variation
- ACC Certificated Route
- Existing High-Voltage Substation
- Approved High-Voltage Substation
- Existing 500kV Transmission Line
- Existing 230kV Transmission Line
- Existing 69kV Transmission Line
- Luke Air Force Base (AFB) Auxiliary Field #1
- Auxiliary Field #1 Accident Potential Zone
- Regional Park

Surface Land Management

- BLM
- USBR
- County
- Military
- Local or State Parks
- State Trust Lands
- Private

BLM Routes

- Primary Road Paved
- Secondary Road Paved
- Secondary Road Unpaved
- Tertiary Road Unpaved
- Single Track
- Reclaiming

- Study Area

N

2 0 2 Miles

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
Arizona State Land Department: 2007-2010

Figure 3.9-3
Route Designations
Sun Valley to Morgan 500/230kV Transmission Line EIS Project

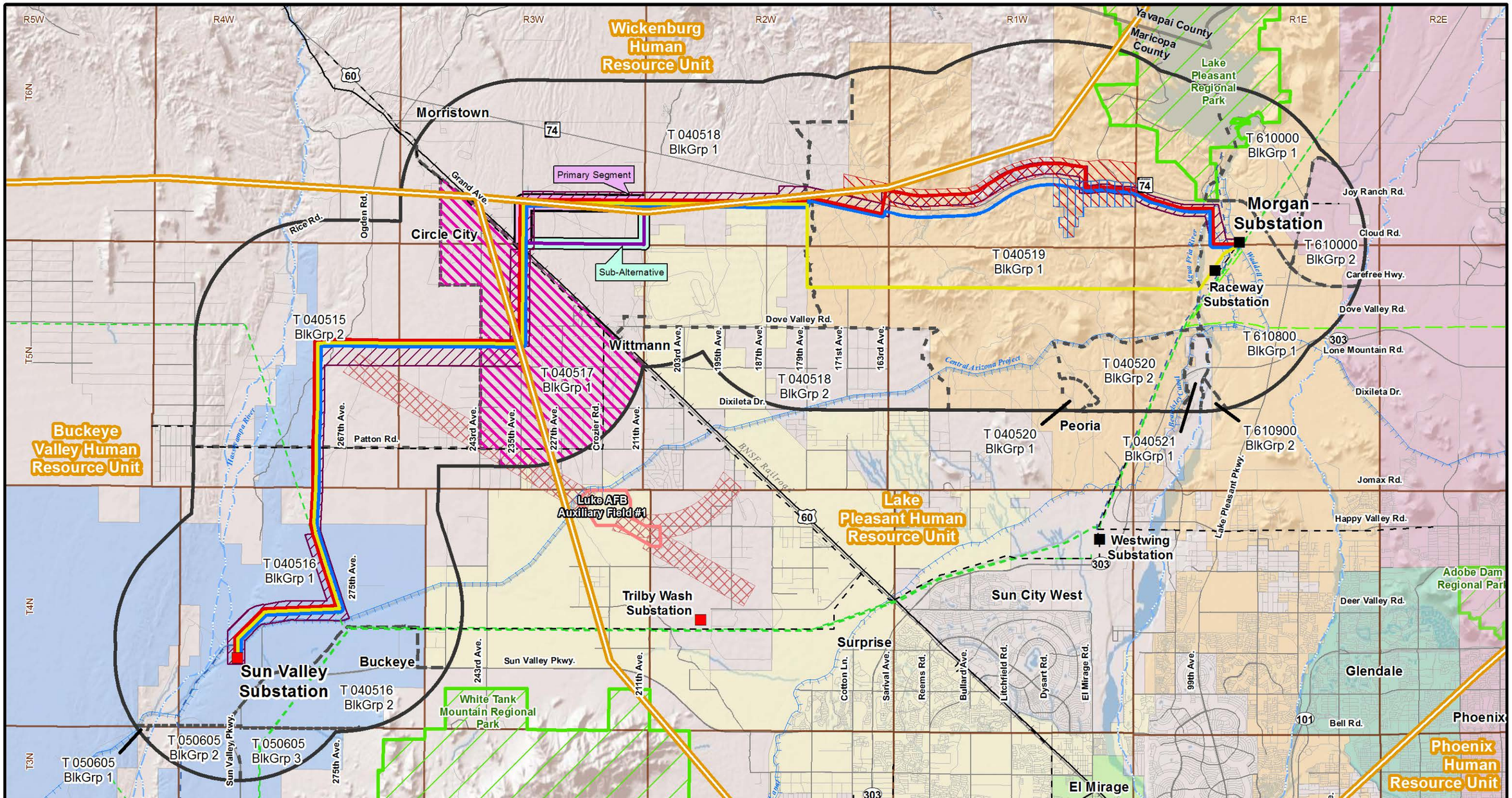
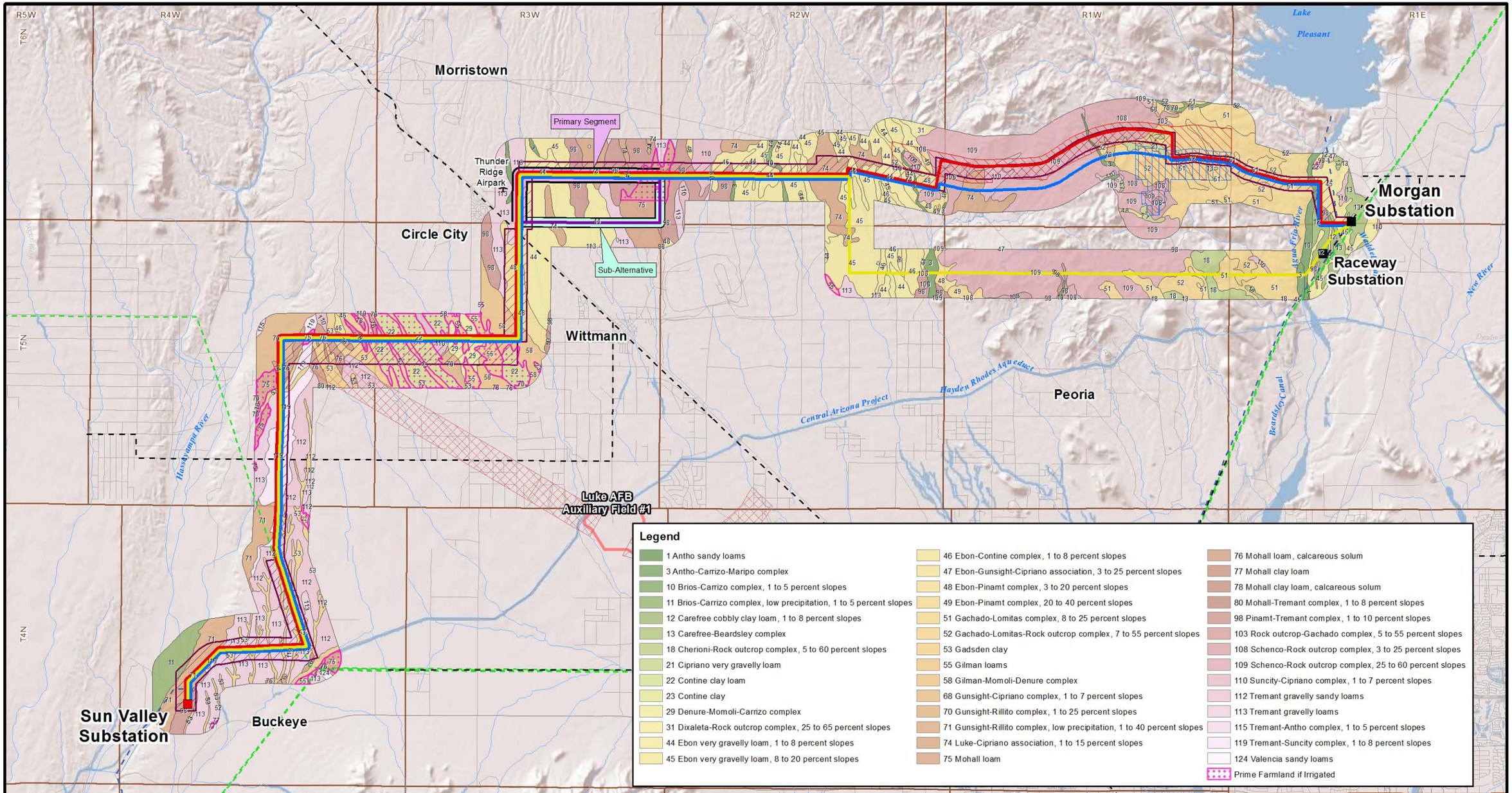


Figure 3.10-1
Environmental Justice and Communities
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

- Sun Valley to Morgan Proposed Action Right-of-Way
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- Alternative 2 South of SR 74
- Alternative 2 Corridor South of SR74
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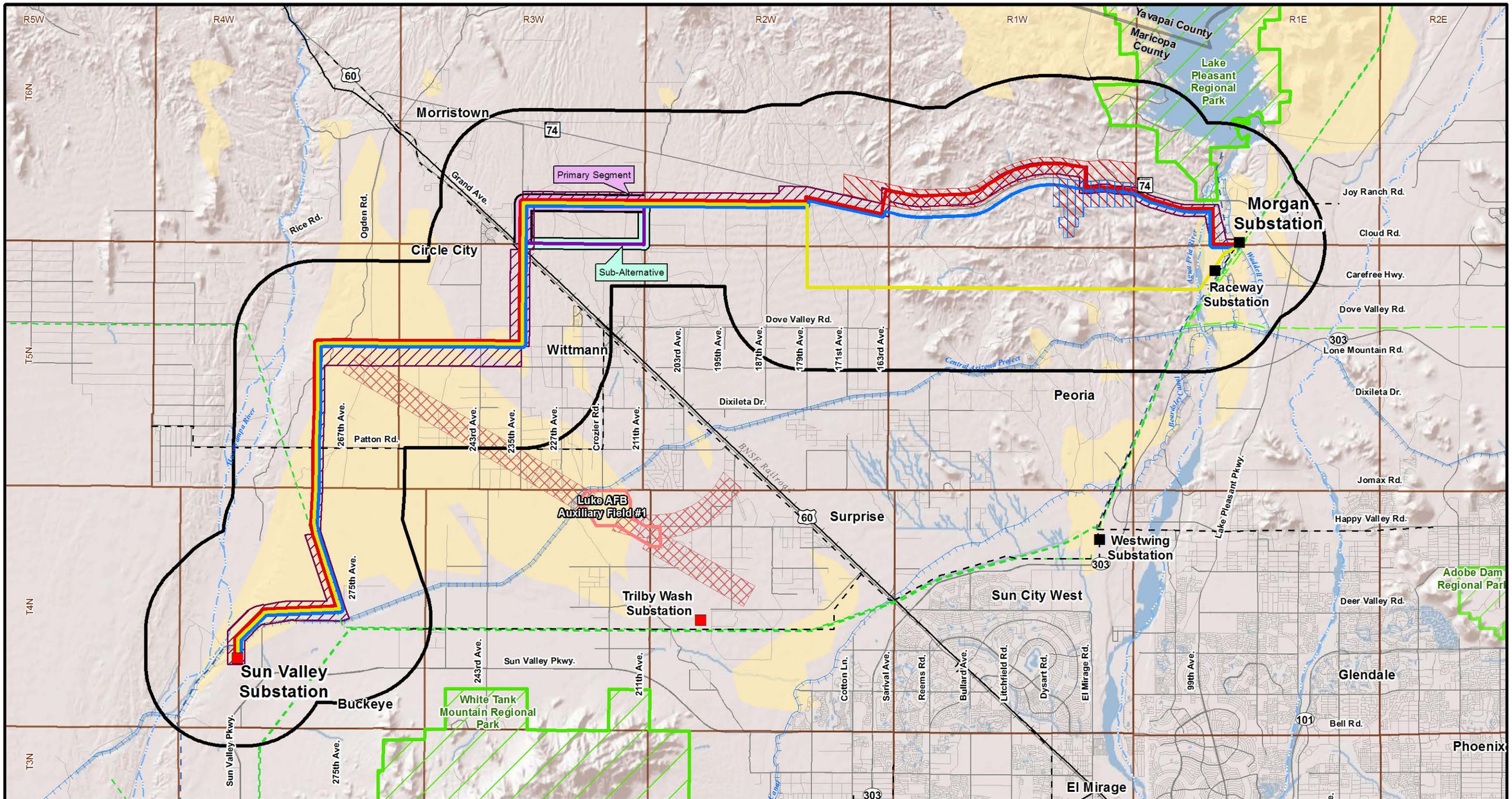
- Existing 69kV Transmission Line
- Luke Air Force Base (AFB) Auxiliary Field #1
- Auxiliary Field #1 Accident Potential Zones

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
Arizona State Land Department: 2007-2010
SSURGO Soils: USDA 2011

N

2 0 2 Miles

Figure 3.11-1
Soil Units
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

- Sun Valley to Morgan Proposed Action Right-of-Way
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- Alternative 2 South of SR 74
- Alternative 2 Corridor South of SR74
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- Existing 69kV Transmission Line
- Luke Air Force Base (AFB) Auxiliary Field #1
- Auxiliary Field #1 Accident Potential Zone
- Regional Park
- Study Area

Soil Shrink/Swell Potential

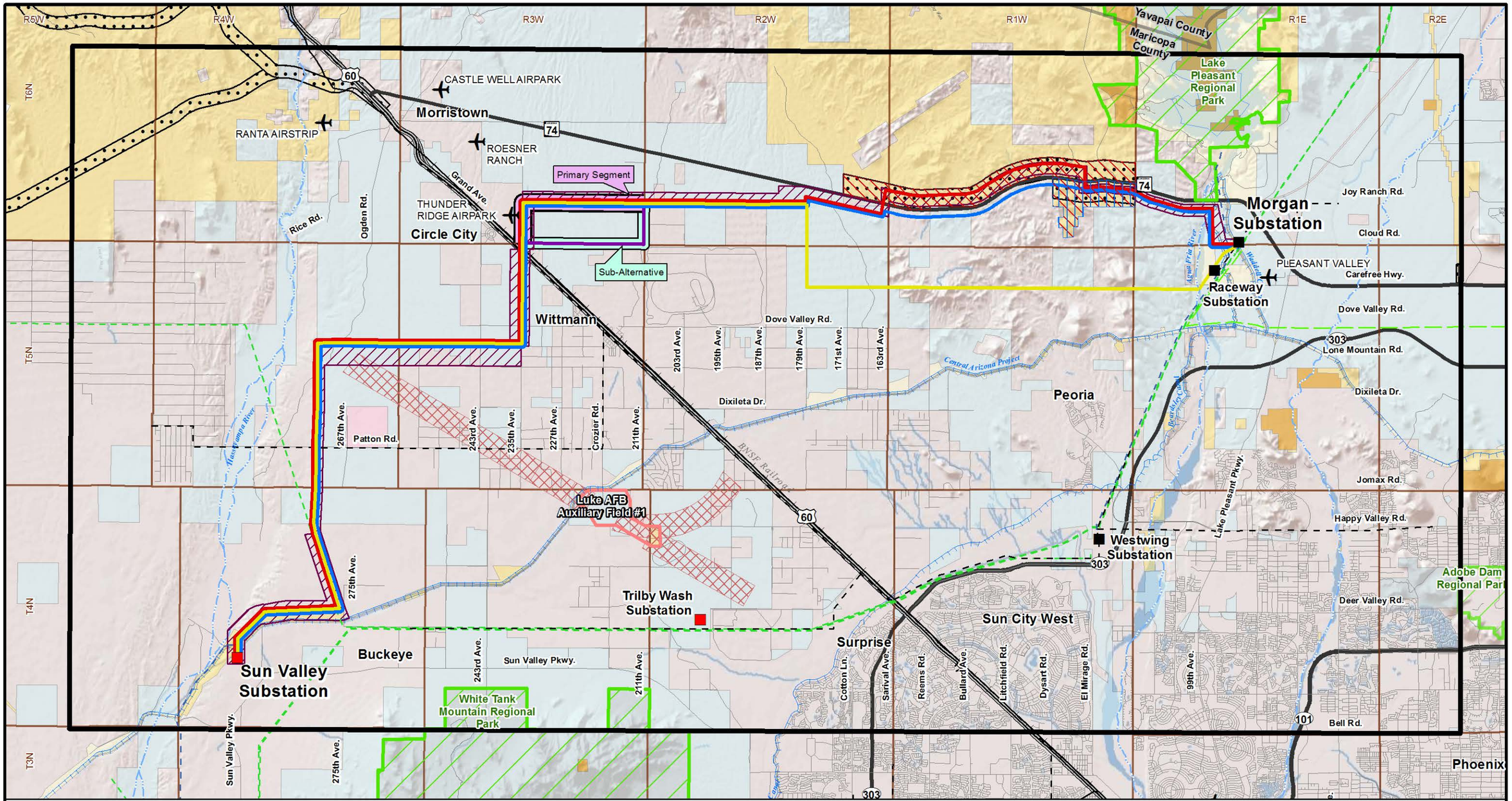
- High Potential

N

2 0 2 Miles

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
Arizona State Land Department: 2007-2010
Shrink/Swell Potential: NRCS 2002

Figure 3.11-2
Soil Hazards
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

- Study Area
- Sun Valley to Morgan Proposed Action Right-of-Way
- Alternative 1 Proposed Action with Additional Corridor
- Alternative 2 South of SR 74
- Alternative 2 Corridor South of SR74
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- Existing 69kV Transmission Line
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- Auxiliary Field #1 Accident Potential Zone
- Regional Park

Surface Land Management

- BLM
- USBR
- County
- Military
- Local or State Parks
- State Trust Lands
- Private

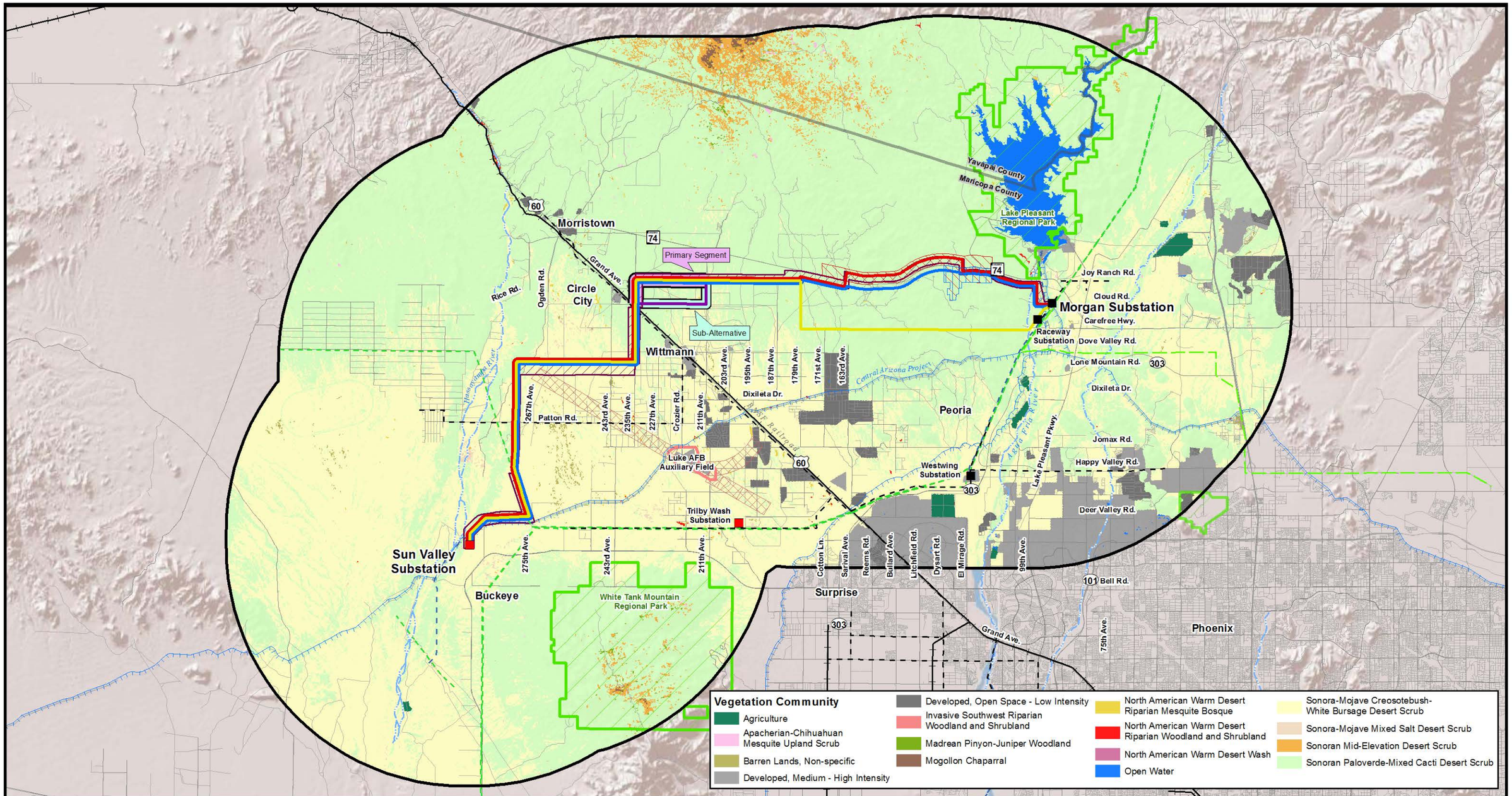
- Airport
- BLM Transportation Corridor
- U.S. Highway
- State Route
- Road

N

2 0 2 Miles

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
Airports: Bureau of Transportation Statistics 2011
Trails: BLM 2011
Scenic Corridors: JBR 2011
Arizona State Land Department: 2007-2010

Figure 3.12-1
Transportation and Traffic
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

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- Alternative 1 Proposed Action with Additional Corridor
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- Alternative 2 Corridor South of SR74
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- Existing 230kV Transmission Line
- Existing 69kV Transmission Line
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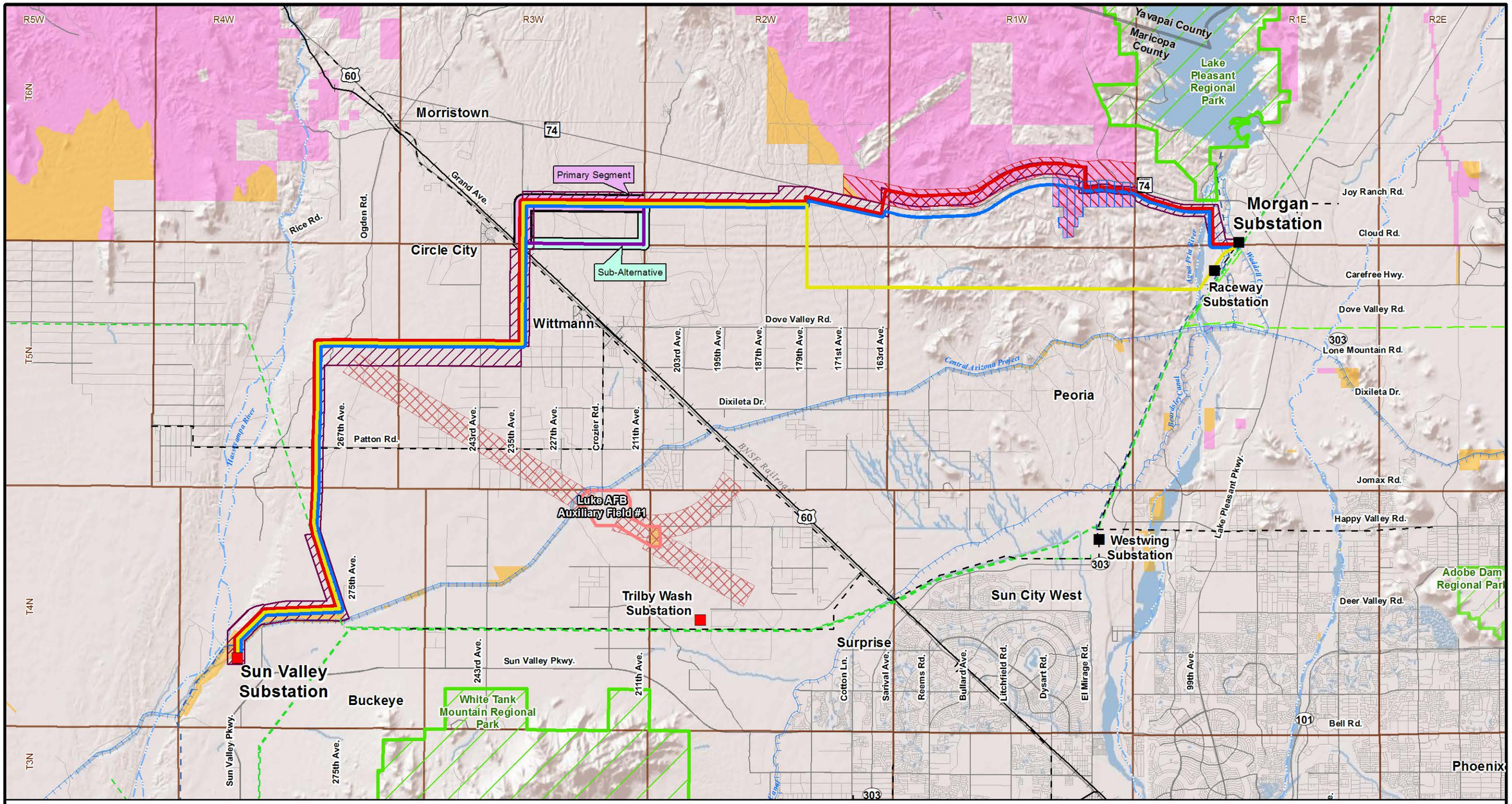
- Luke Air Force Base (AFB) Auxiliary Field #1
- Regional Park
- Study Area

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
Arizona State Land Department: 2007-2010
Southwest Regap: College of Natural Resources, Utah State University 2004

N

2 0 2 Miles

Figure 3.13-1
Vegetation Communities
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

- Sun Valley to Morgan Proposed Action Right-of-Way
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- Auxiliary Field #1 Accident Potential Zone
- Regional Park

Scenic Quality Classification

- B (Moderate)
- C (Low)

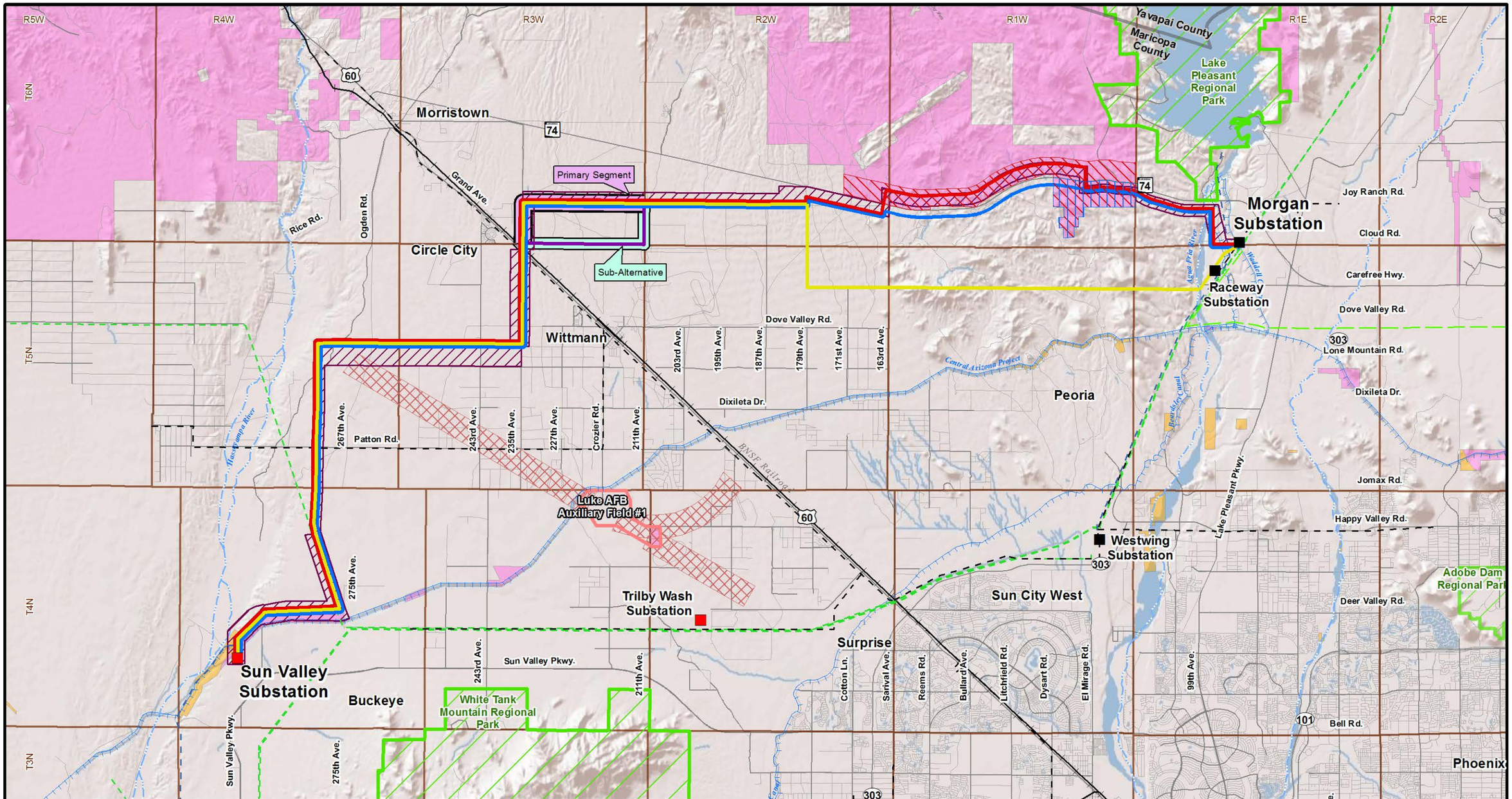
*Based on the results of the inventory, no lands in the project area received a Scenic Quality Classification of A.

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
VRI: BLM 2010

N

2 0 2 Miles

Figure 3.14-1
Scenic Quality Ratings
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

- Sun Valley to Morgan Proposed Action Right-of-Way
- Alternative 1 Proposed Action with Additional Corridor
- Alternative 2 South of SR 74
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- Existing 69kV Transmission Line
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- Auxiliary Field #1 Accident Potential Zone
- Regional Park

Sensitivity Level Classification

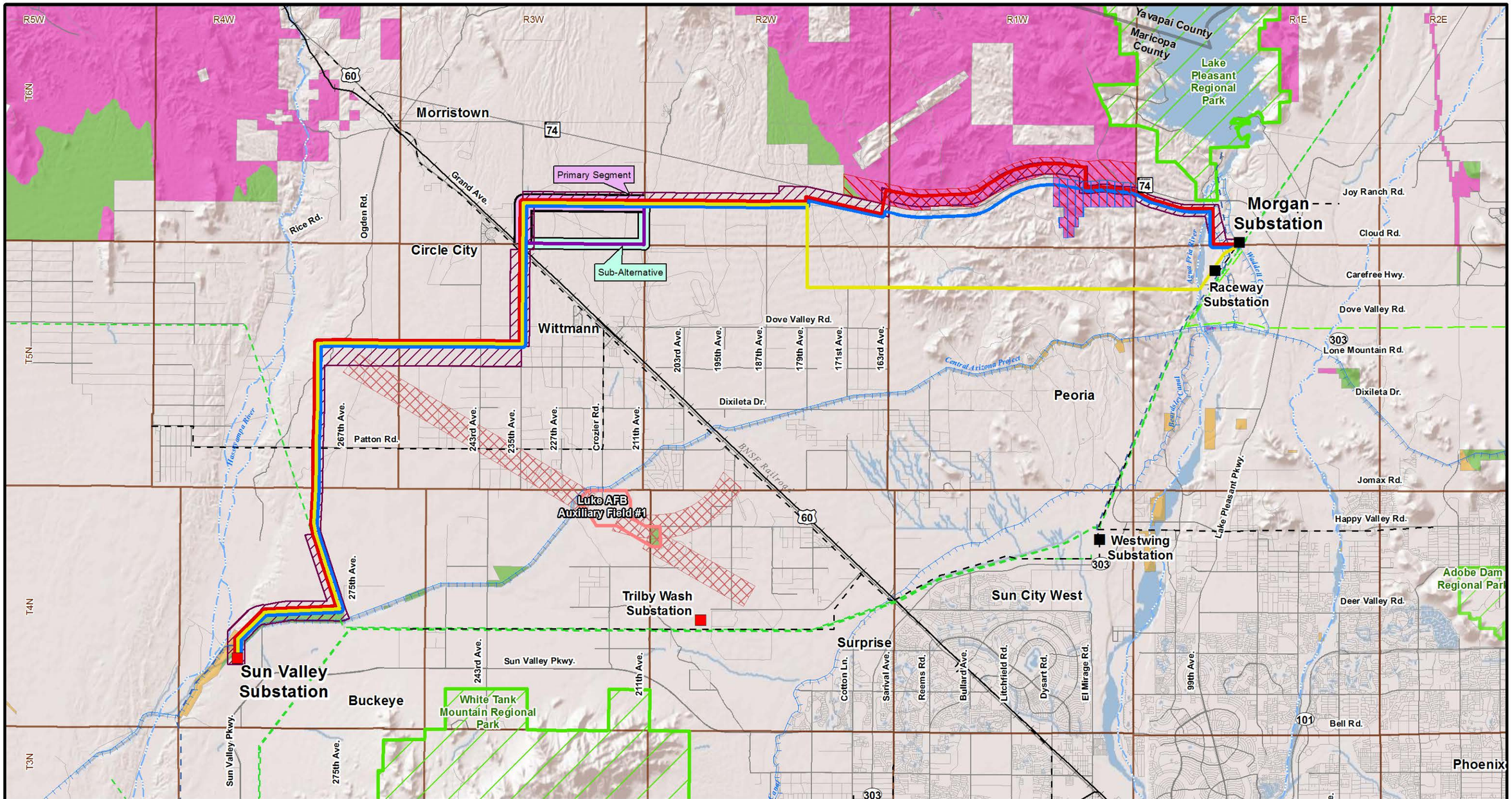
- High
- Low

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
VRI: BLM 2010

N

2 0 2 Miles

Figure 3.14-2
Viewer Sensitivity
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

- Sun Valley to Morgan Proposed Action Right-of-Way
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- Existing 69kV Transmission Line
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- Auxiliary Field #1 Accident Potential Zone
- Regional Park

Visual Resource Inventory Classification

- II
- III
- IV

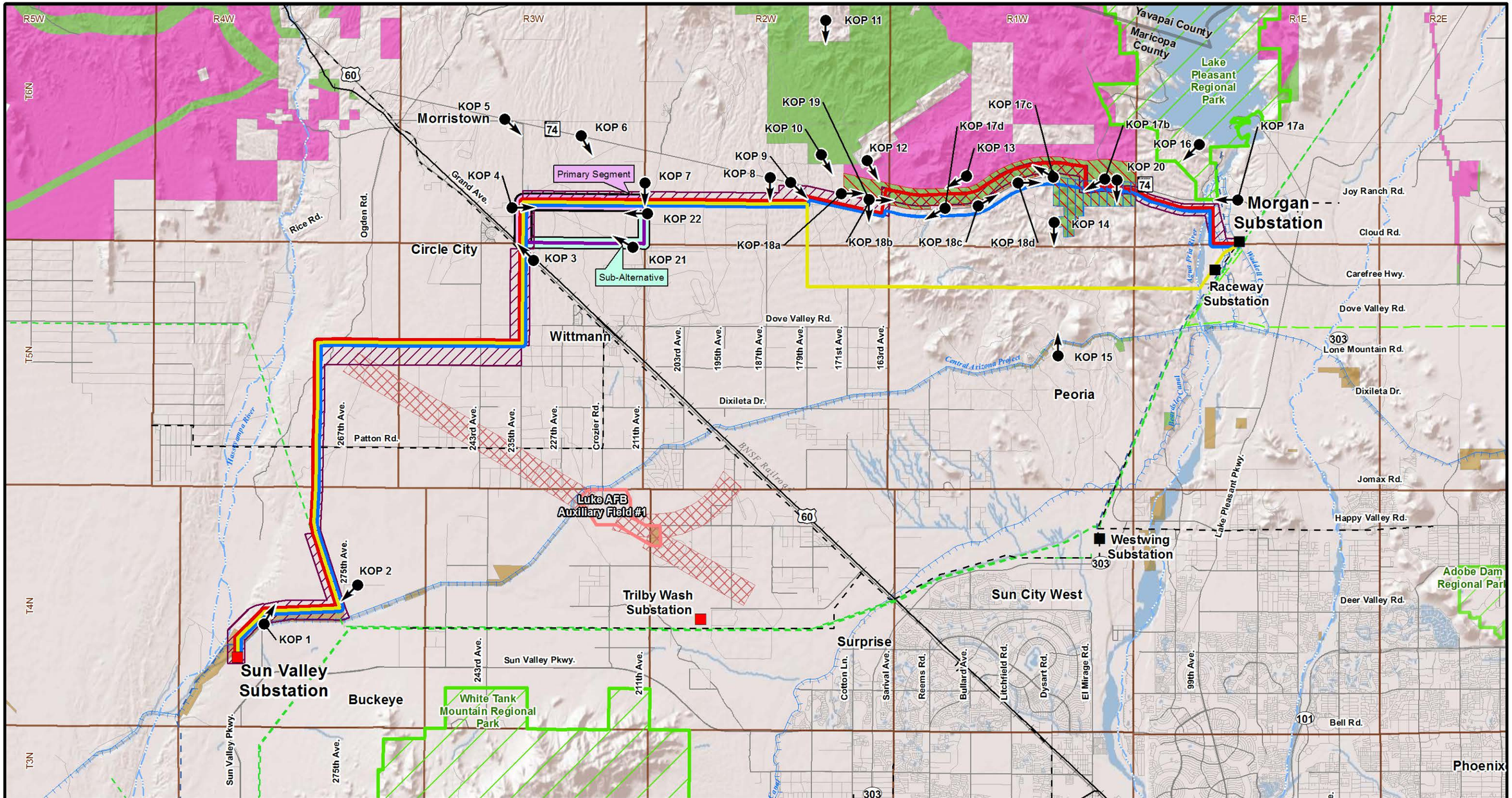
*Based on the results of the inventory, no lands in the project area received a Class I classification.

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
VRI: BLM 2010

N

2 0 2 Miles

Figure 3.14-3
VRI Classification
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

- Sun Valley to Morgan Proposed Action Right-of-Way
- Alternative 1 Proposed Action with Additional Corridor
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- Approved High-Voltage Substation
- Existing 500kV Transmission Line
- Existing 230kV Transmission Line
- Existing 69kV Transmission Line
- Luke Air Force Base (AFB) Auxiliary Field #1
- Auxiliary Field #1 Accident Potential Zone
- Regional Park
- Key Observation Point (Arrow denotes direction of view)

VRM Class

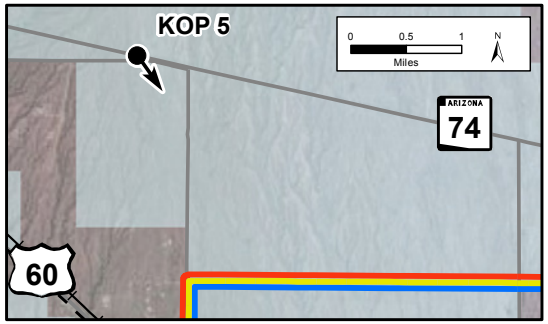
- II
- III
- IV

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
VRM: BLM 2010
Key Observatin Points: BLM 2011

N

2 0 2 Miles

Figure 3.14-4
KOPs and VRM Classes
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

Key Observation Point

Sun Valley to Morgan Proposed Action Right-of-Way

Alternative 2 South of SR 74

Alternative 3 Carefree Highway

Existing 69kV Transmission Line

Major Roads

Surface Land Management

State

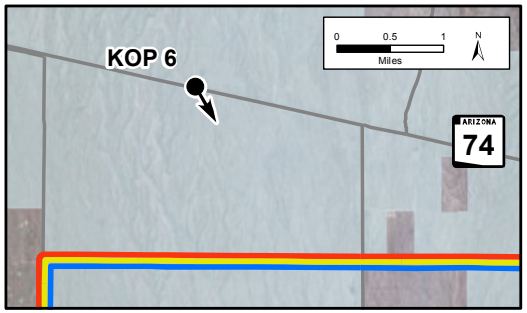
Private

Photograph Information

Time of photograph:	2:54 PM
Date of photograph:	12-6-11
Weather condition:	Clear
Viewing direction:	Southeast
Latitude:	33°51'19.33"N
Longitude:	112°34'34.24"W
Camera:	Nikon D700
Lens:	50mm
Lighting condition:	Sidelit

Figure 3.14-5
Existing Conditions
from Key Observation Point 5

Sun Valley to Morgan 500/230kV
Transmission Line EIS Project



Legend

Key Observation Point

Sun Valley to Morgan Proposed Action Right-of-Way

Alternative 2 South of SR 74

Alternative 3 Carefree Highway

Major Roads

Surface Land Management

State

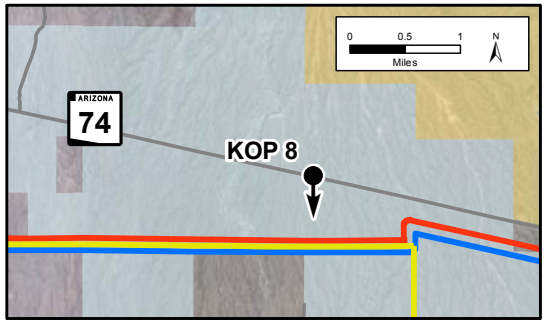
Private

Photograph Information

Time of photograph:	2:37 PM
Date of photograph:	12-6-11
Weather condition:	Clear
Viewing direction:	Southeast
Latitude:	33°50'58.73"N
Longitude:	112°32'36.79"W
Camera:	Nikon D700
Lens:	50mm
Lighting condition:	Sidelit

Figure 3.14-6
Existing Conditions
from Key Observation Point 6

Sun Valley to Morgan 500/230kV
Transmission Line EIS Project



Legend

Key Observation Point

Sun Valley to Morgan Proposed Action Right-of-Way

Alternative 2 South of SR 74

Alternative 3 Carefree Highway

Major Roads

Surface Land Management

Bureau of Land Management

State

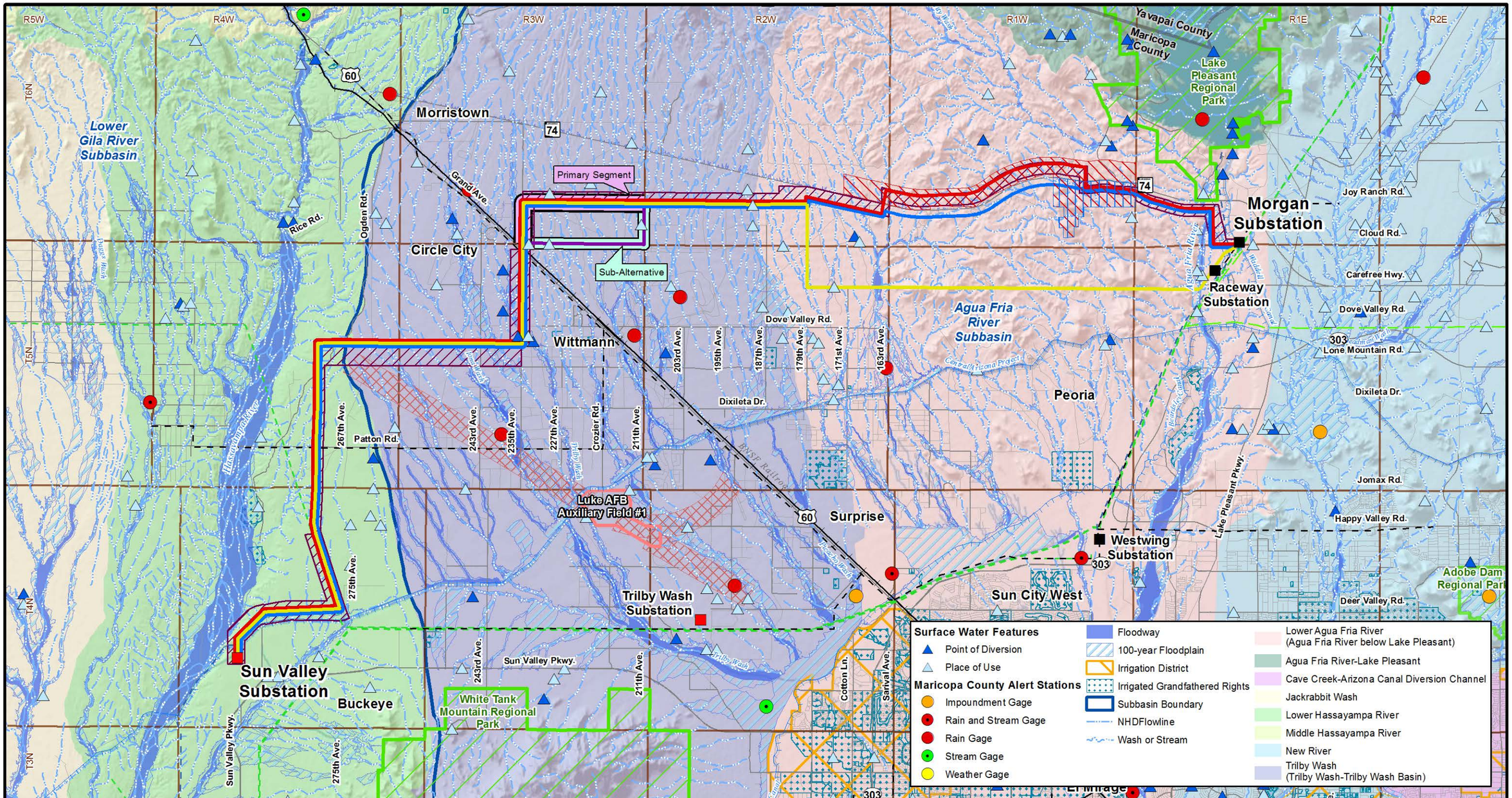
Private

Photograph Information

Time of photograph:	11:56 AM
Date of photograph:	10-19-11
Weather condition:	Clear
Viewing direction:	South
Latitude:	33°50'6.55"N
Longitude:	112°27'46.71"W
Camera:	Nikon D700
Lens:	50mm
Lighting condition:	Backlit

Figure 3.14-7
Existing Conditions
from Key Observation Point 8

Sun Valley to Morgan 500/230kV
Transmission Line EIS Project



Legend

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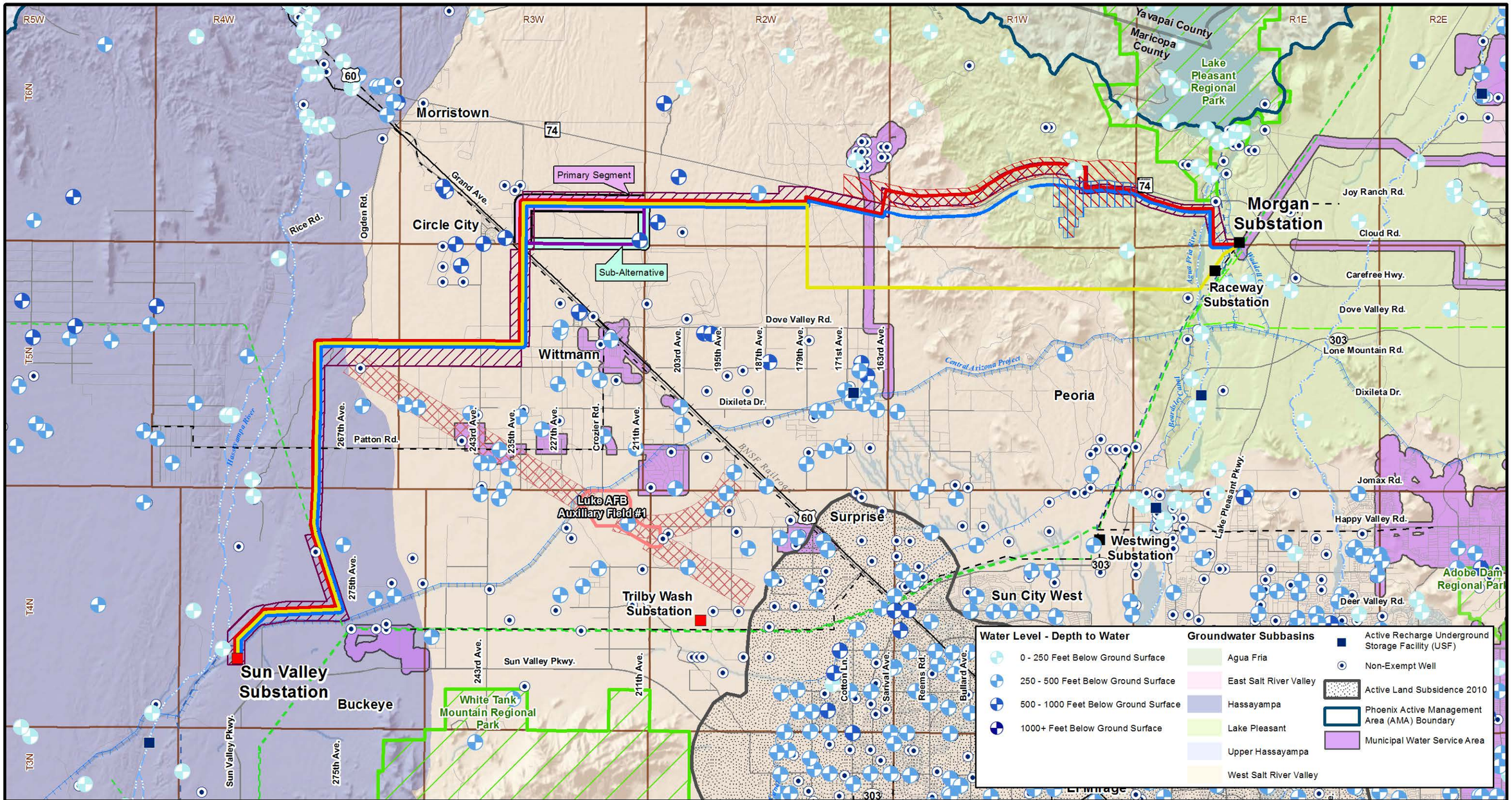
- Auxiliary Field #1 Accident Potential Zone
- Regional Park

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
Arizona State Land Department: 2007-2010
ADWR: 2008-2011
FCDMC: 2008
FEMA: 2005

N

2 0 2 Miles

Figure 3.15-1
Surface Water Resources
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

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- Existing 69kV Transmission Line
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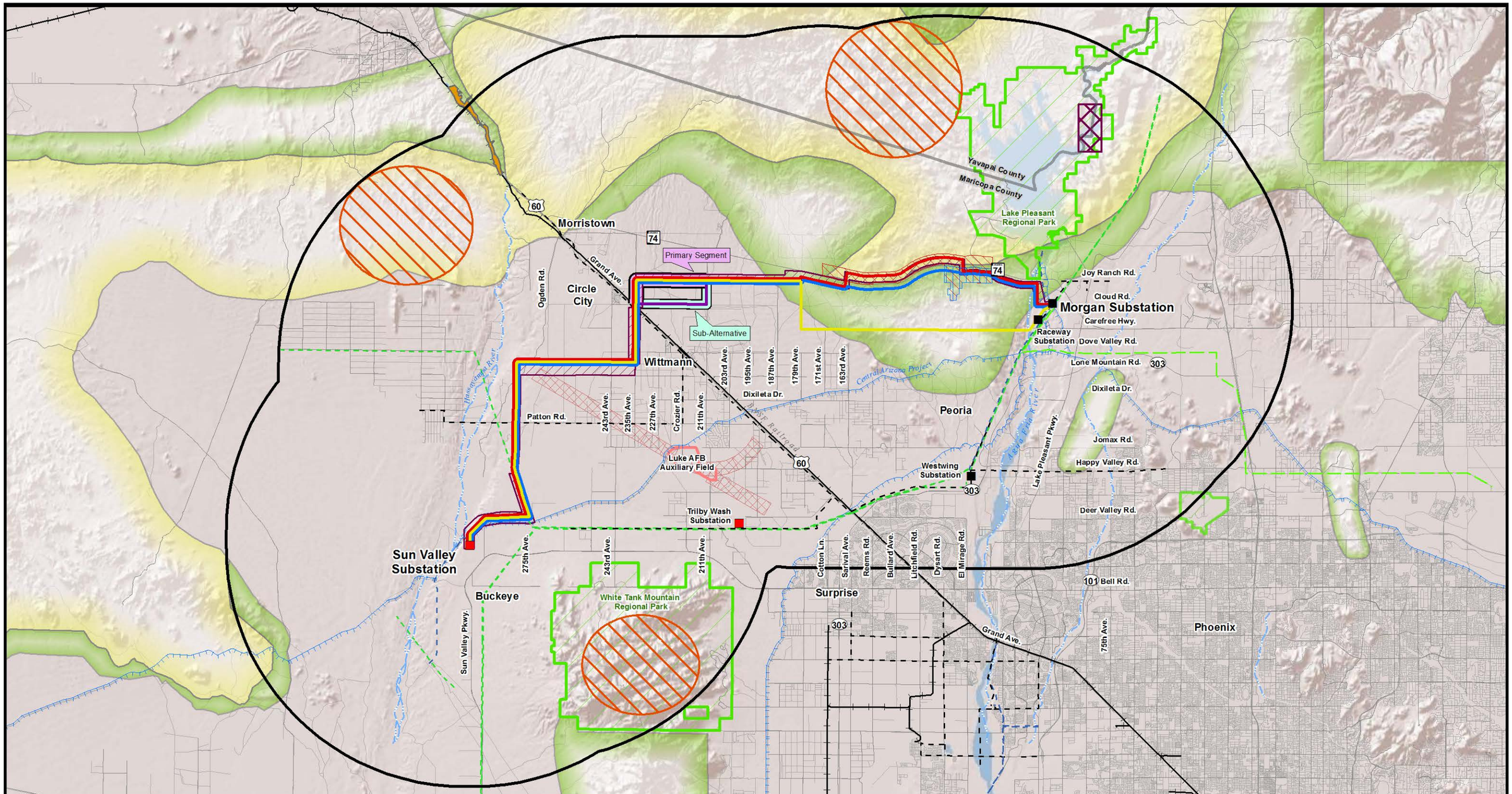
- Auxiliary Field #1 Accident Potential Zone
- Regional Park

N

2 0 2 Miles

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
Arizona State Land Department: 2007-2010
ADWR: 2008-2011

Figure 3.15-2
Groundwater Resources
Sun Valley to Morgan 500/230kV Transmission Line EIS Project



Legend

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- Luke Air Force Base (AFB) Auxiliary Field #1
- Regional Park

Special Status Species

- Southwest Willow Flycatcher Proposed Critical Habitat

BLM Tortoise Habitat Category

- Category 2
- Category 3

Eagle Habitat

- Bald Eagle Nest Enclosure
- Golden Eagle Modeled Nesting Substate
- Study Area

N

2 0 2 Miles

Base Map: ESRI Shaded Relief accessed at ArcGISOnline.com
Arizona State Land Department: 2007-2010
U.S. Fish & Wildlife Service: 2011

Figure 3.16-1
Special Status Species Potential Suitable Habitat
Sun Valley to Morgan 500/230kV Transmission Line EIS Project