

**ATTACHMENT A: AIR BASINS AND AIR DISTRICTS MAPS**

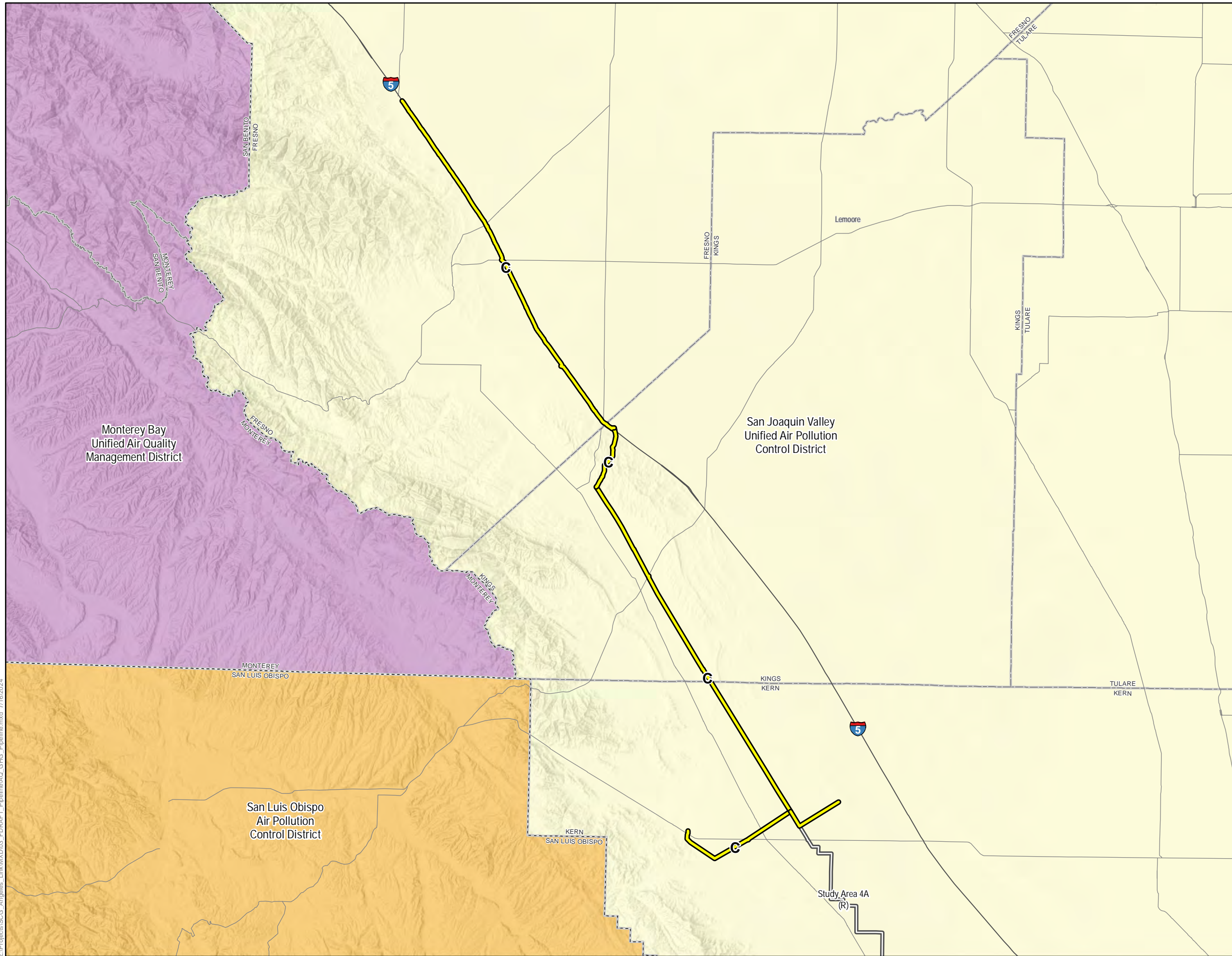
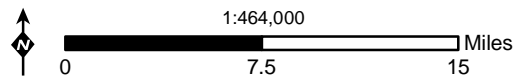


**Attachment A: Air Basins and Air Districts Maps  
Study Area 1A**

**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- County Boundary
- - - Air District Boundary
- Air Basin**
- San Joaquin Valley
- North Central Coast
- South Central Coast
- Segment**
- C
- Adjacent/Other Study Area Visible

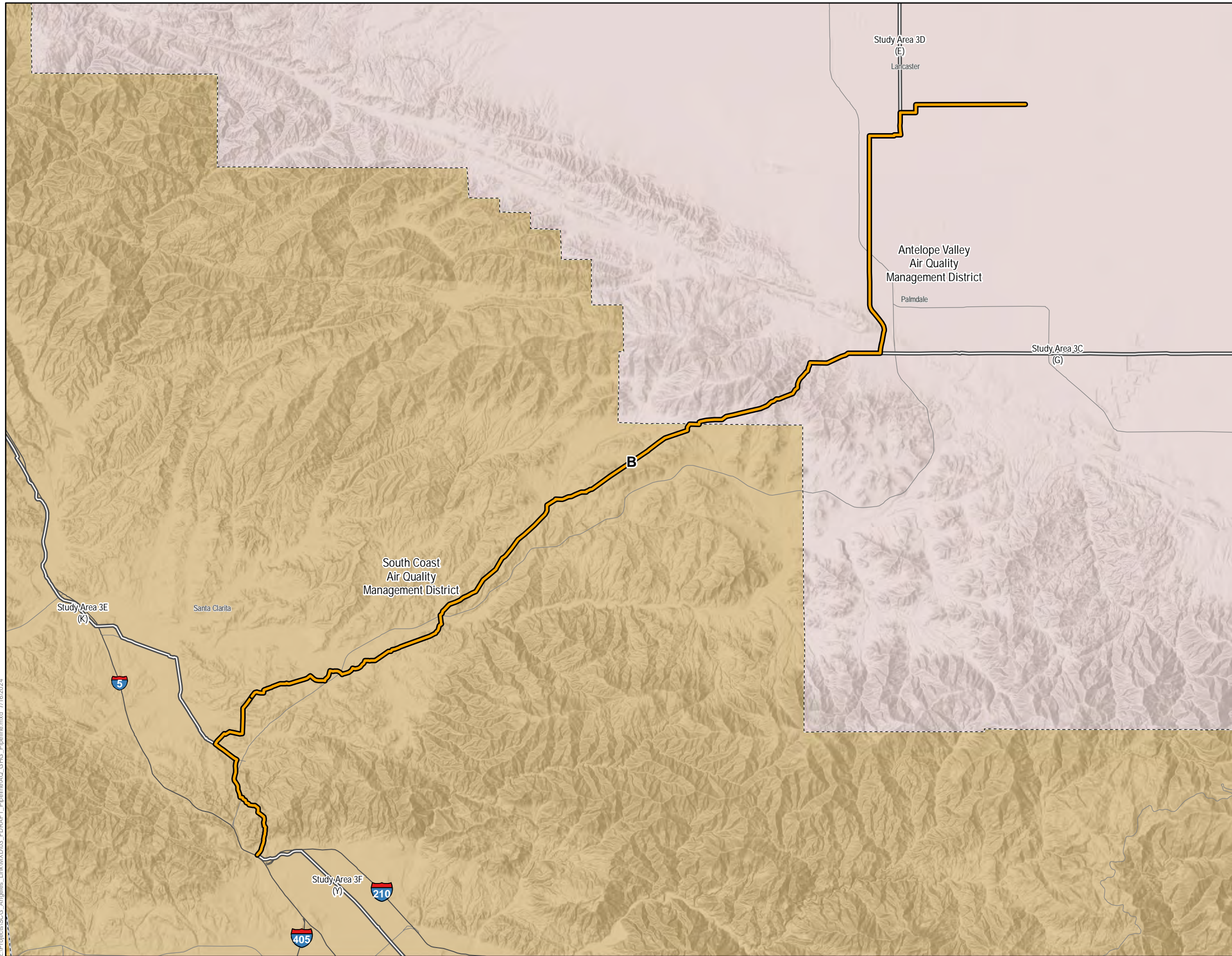
**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.



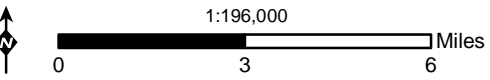
**Attachment A: Air Basins and Air Districts Maps  
Study Area 1B**

**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- County Boundary
- - - Air District Boundary
- Air Basin**
- South Coast
- Mojave Desert
- South Central Coast
- Segment**
- B
- Adjacent/Other Study Area Visible



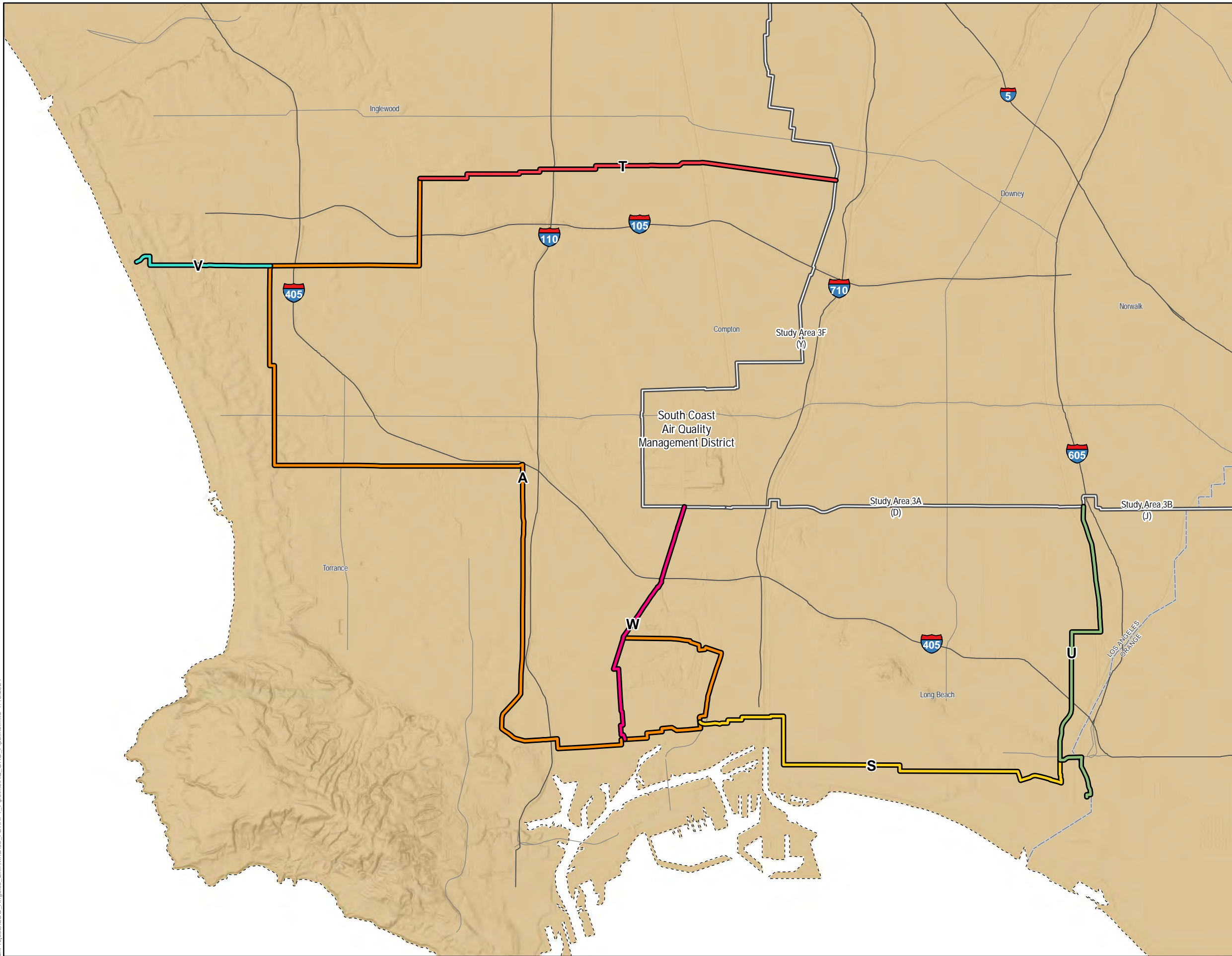
**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.



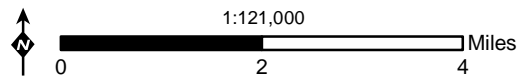
Attachment A: Air Basins and Air Districts Maps  
Study Area 2

Angeleno Link Phase 1  
Environmental Analysis

- Interstate
- State Highway
- County Boundary
- - - Air District Boundary
- Air Basin**
- South Coast
- Segment**
- A
- S
- T
- U
- V
- W
- Adjacent/Other Study Area Visible



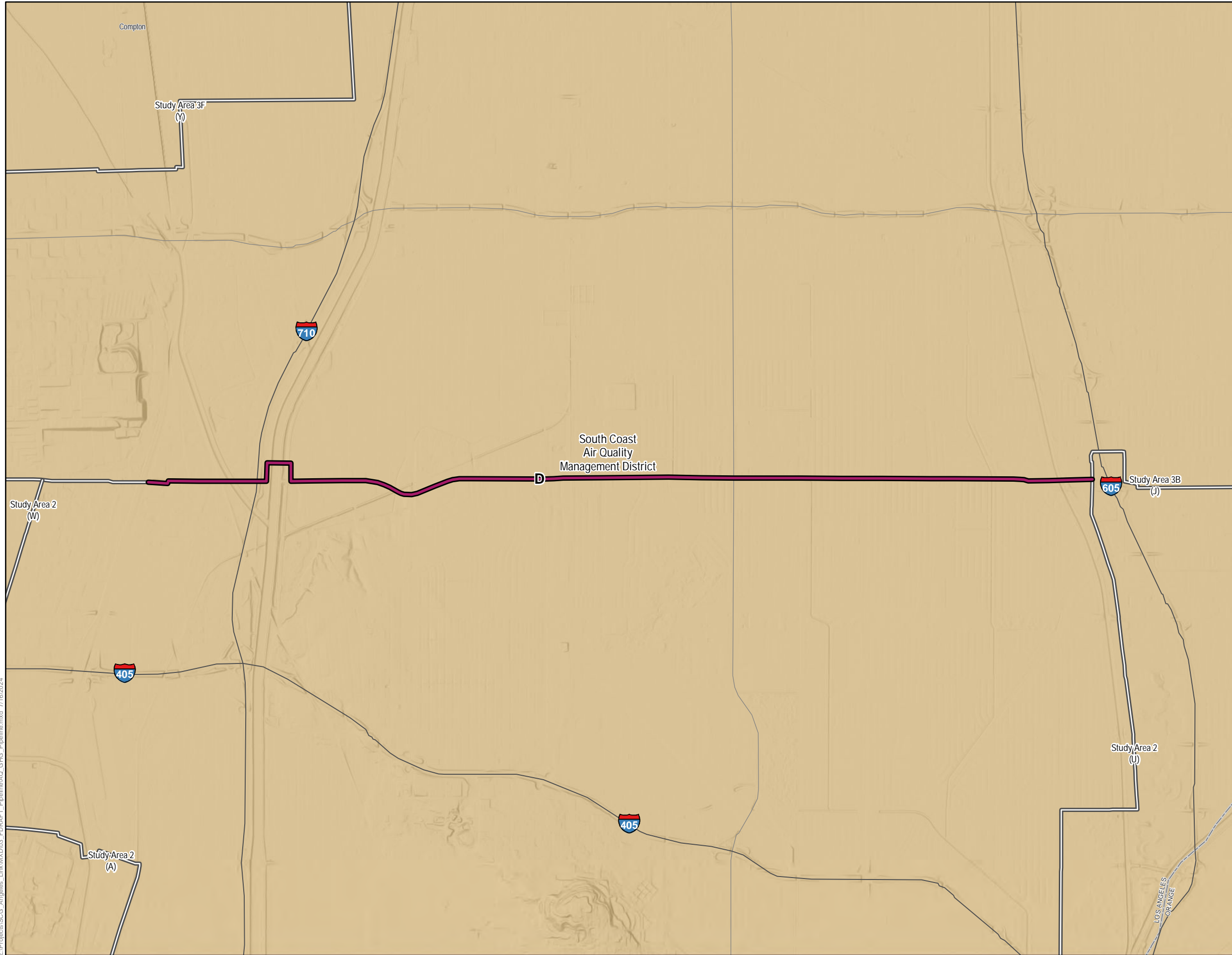
**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.



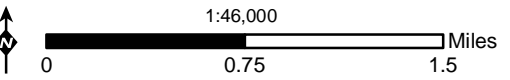
**Attachment A: Air Basins and Air Districts Maps  
Study Area 3A**

**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- County Boundary
- - - Air District Boundary
- Air Basin**
- South Coast
- Segment**
- D
- Adjacent/Other Study Area Visible



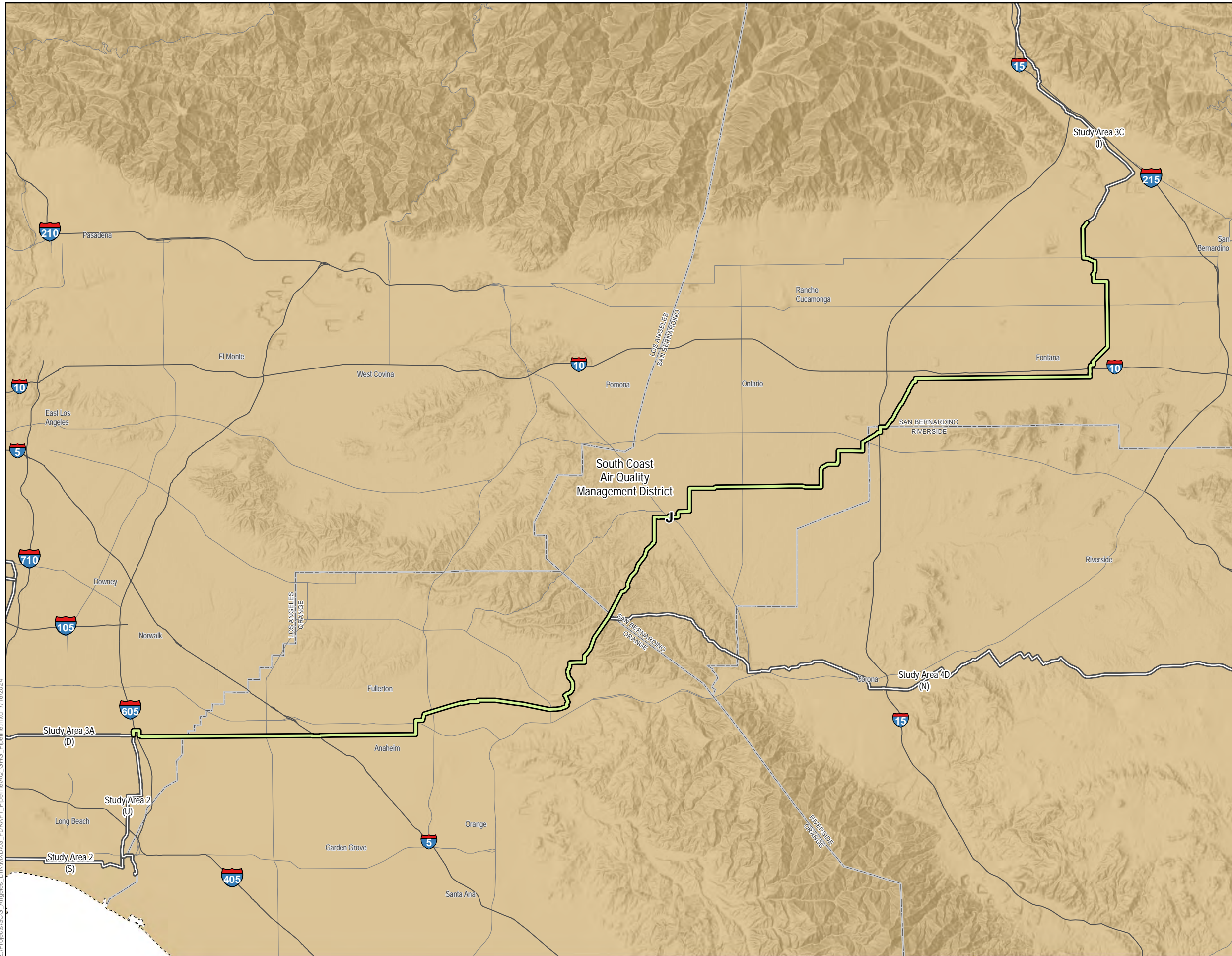
**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.



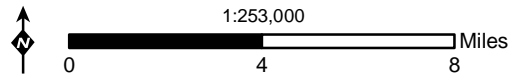
Attachment A: Air Basins and Air Districts Maps  
Study Area 3B

Angeles Link Phase 1  
Environmental Analysis

- Interstate
- State Highway
- County Boundary
- - - Air District Boundary
- Air Basin**
- South Coast
- Segment**
- J
- Adjacent/Other Study Area Visible

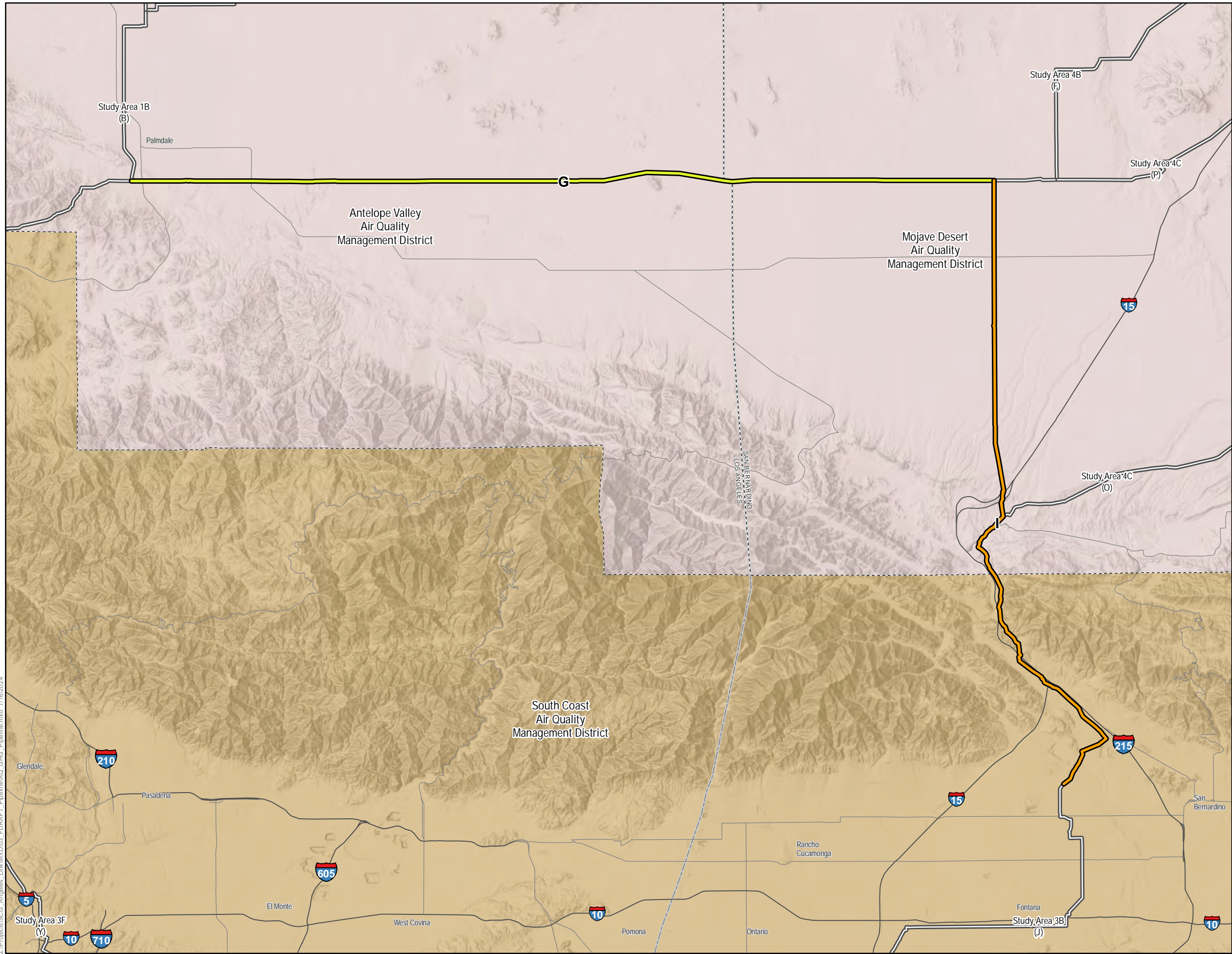


**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.



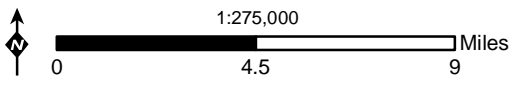
**Attachment A: Air Basins and Air Districts Maps  
Study Area 3C**

**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
  - State Highway
  - County Boundary
  - - - Air District Boundary
- Air Basin**
- South Coast
  - Mojave Desert
- Segment**
- G
  - I
  - Adjacent/Other Study Area Visible

**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.

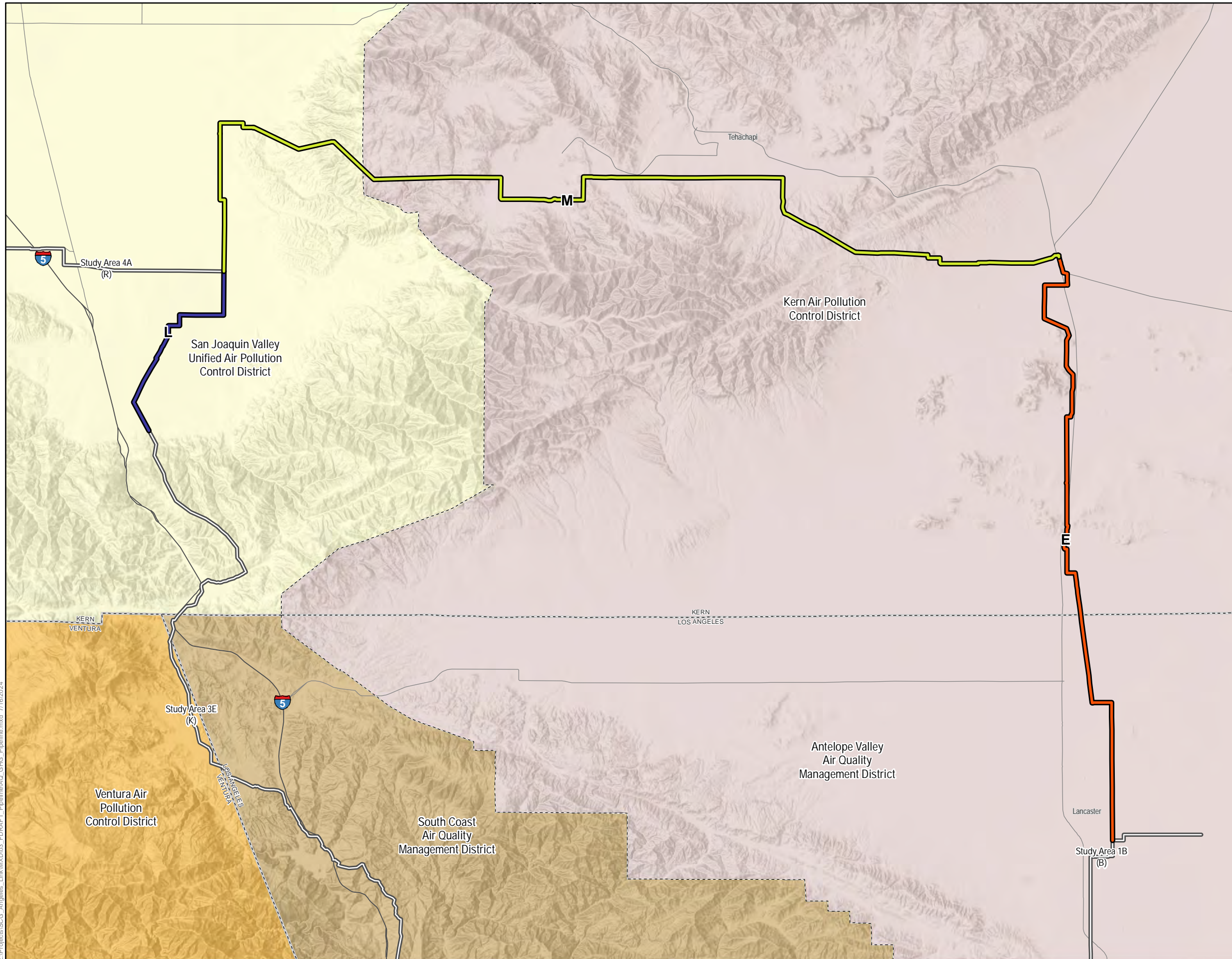


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\AQ\_GHG\_Pipeline.mxd 7/16/2024



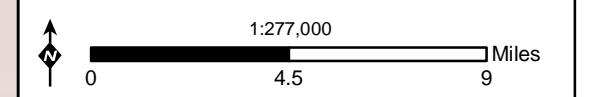
**Attachment A: Air Basins and Air Districts Maps  
Study Area 3D**

**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
  - State Highway
  - County Boundary
  - - - Air District Boundary
- Air Basin**
- San Joaquin Valley
  - South Coast
  - Mojave Desert
  - South Central Coast
- Segment**
- E
  - L
  - M
  - Adjacent/Other Study Area Visible

**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.

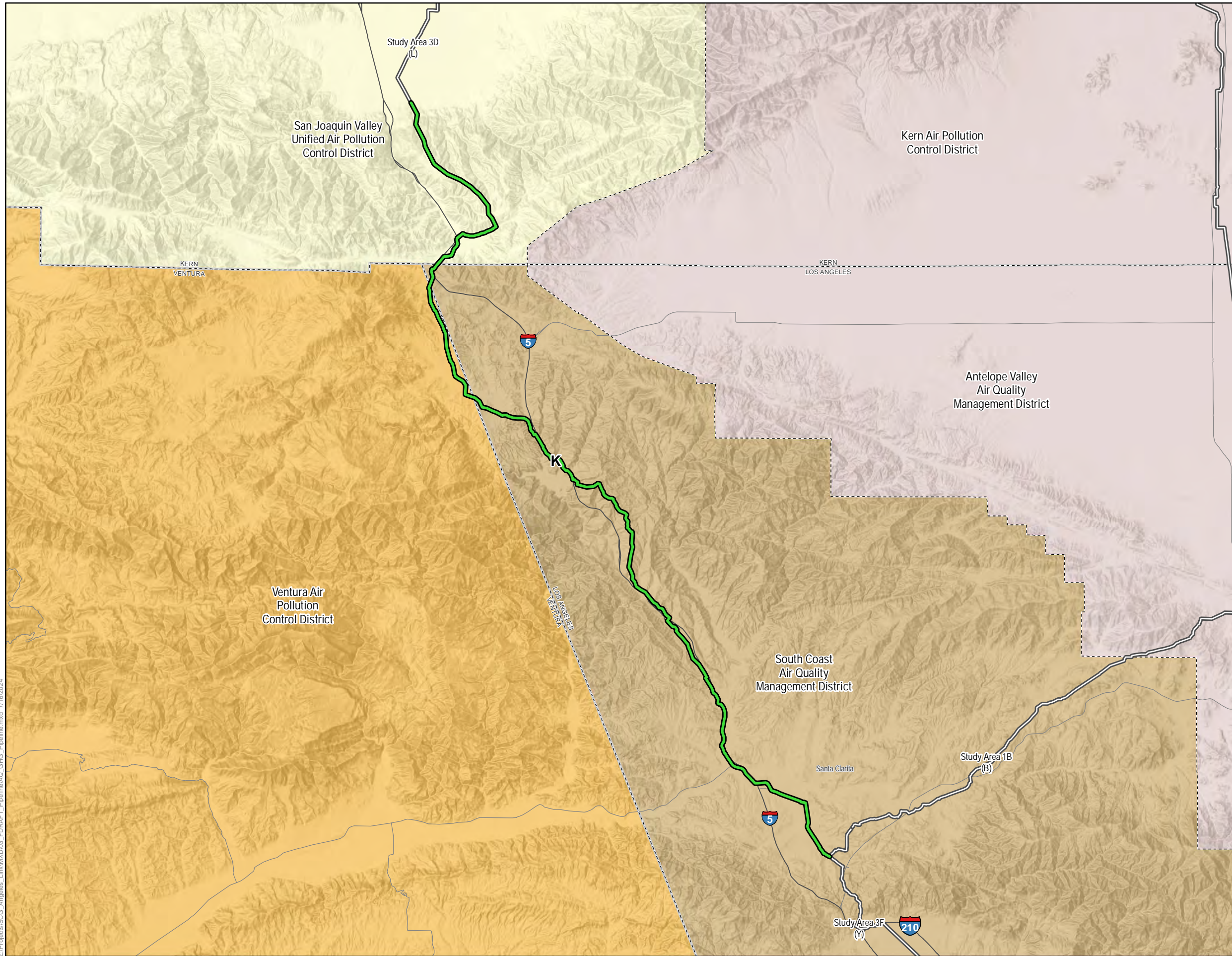


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\AQ\_GHG\_Pipeline.mxd 7/16/2024

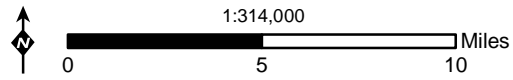
**Attachment A: Air Basins and Air Districts Maps**  
**Study Area 3E**

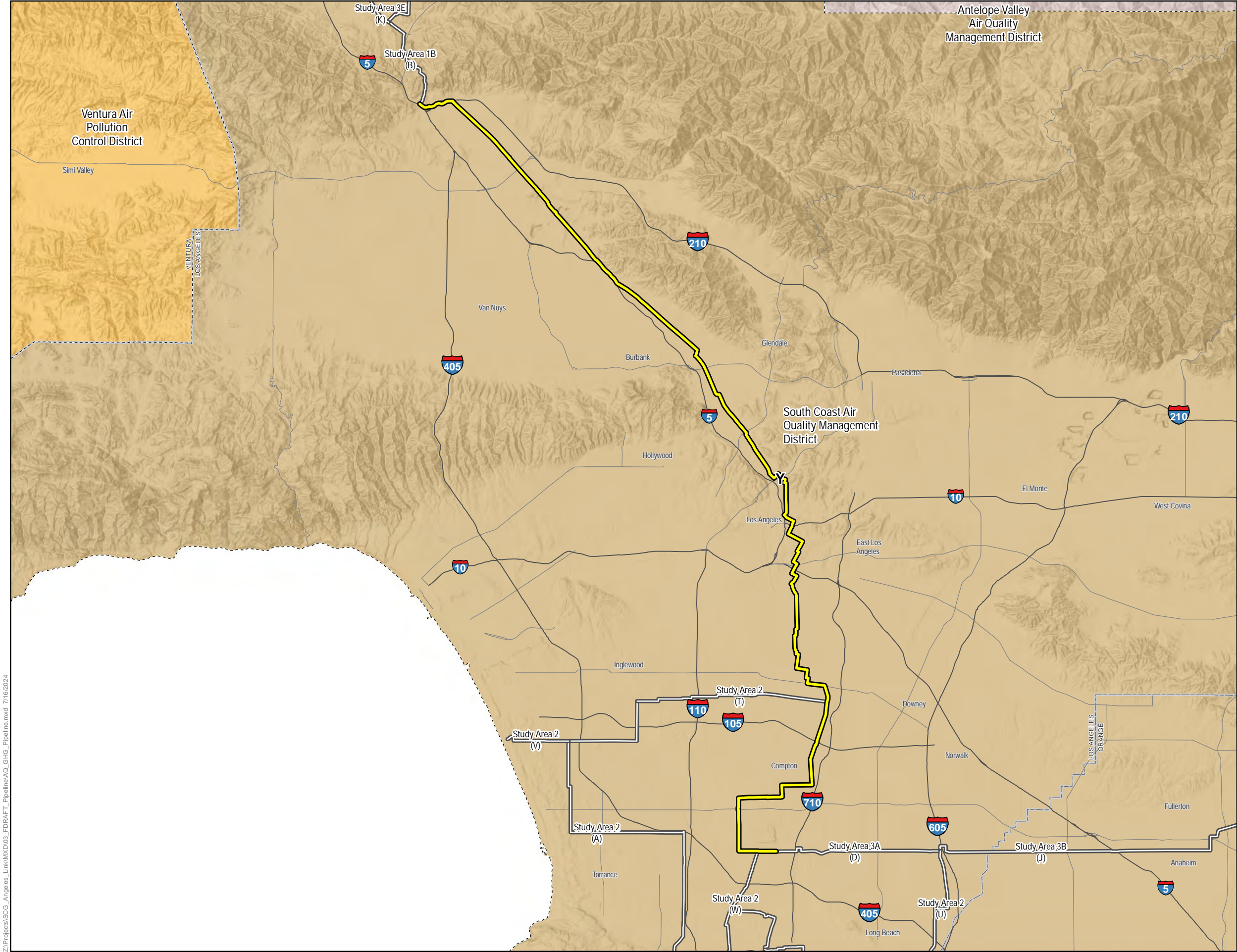
**Angeles Link Phase 1**  
**Environmental Analysis**

- Interstate
- State Highway
- County Boundary
- - - Air District Boundary
- Air Basin**
- San Joaquin Valley
- South Coast
- Mojave Desert
- South Central Coast
- Segment**
- K
- Adjacent/Other Study Area Visible



**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.





**Attachment A: Air Basins and Air Districts Maps**  
**Study Area 3F**  
**Angeles Link Phase 1**  
**Environmental Analysis**

- Interstate
  - State Highway
  - County Boundary
  - - - Air District Boundary
- Air Basin**
- South Coast
  - Mojave Desert
  - South Central Coast
- Segment**
- Y
  - Adjacent/Other Study Area Visible

**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.



SoCalGas | INSIGNIA ENVIRONMENTAL

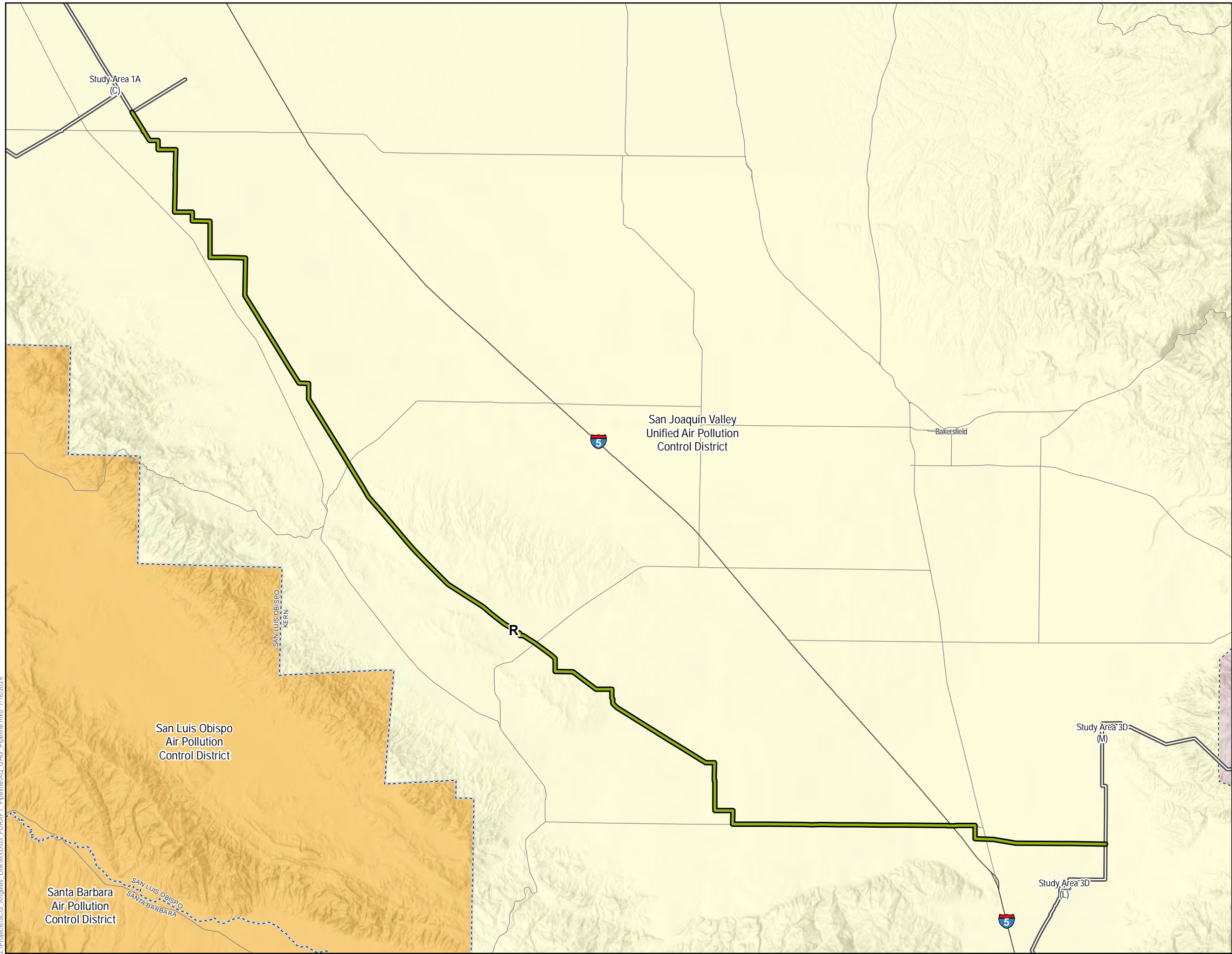
1:264,000

0 4.5 9 Miles

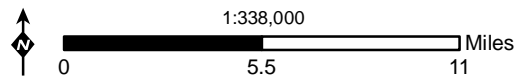
Attachment A: Air Basins and Air Districts Maps  
Study Area 4A

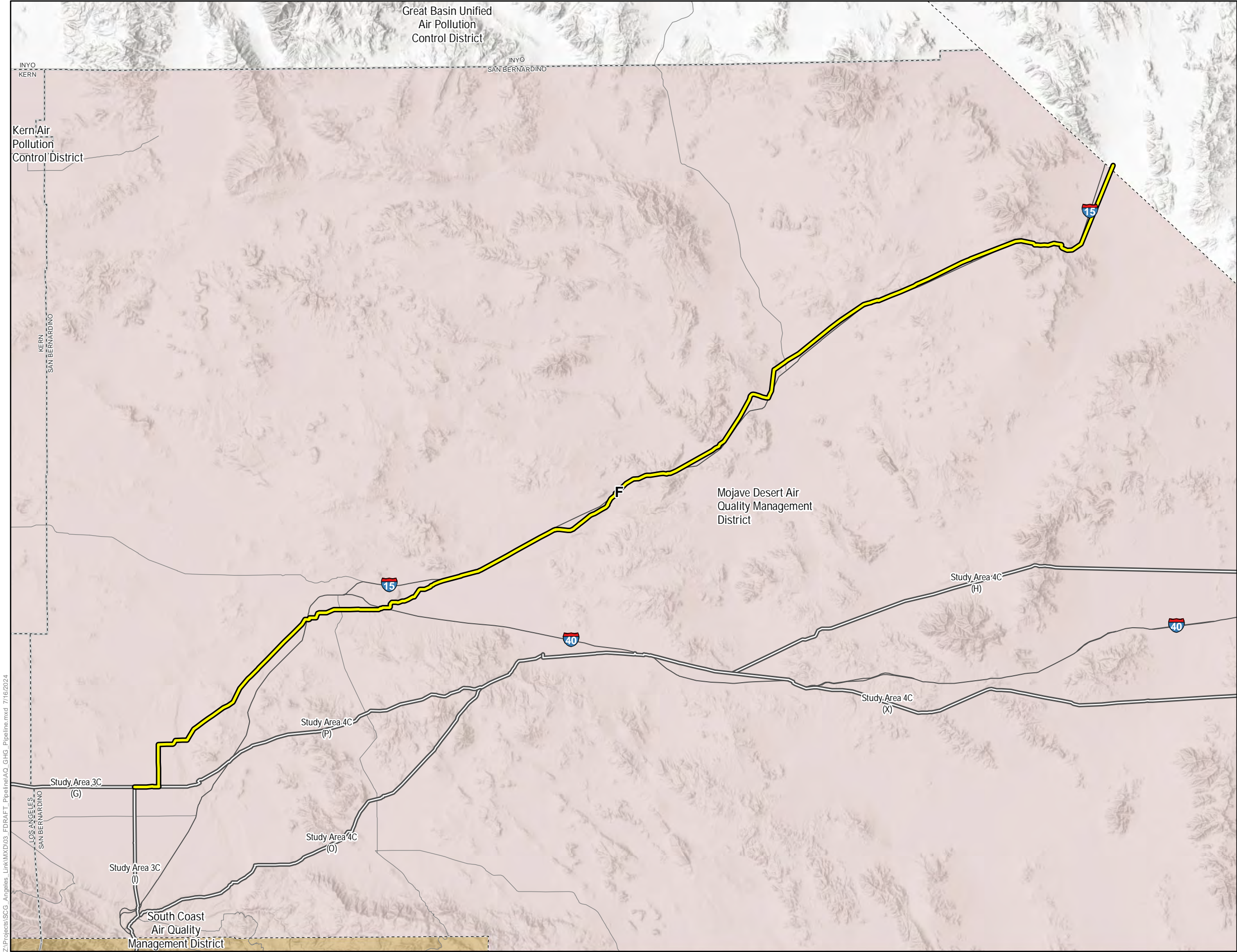
Angeles Link Phase 1  
Environmental Analysis

- Interstate
- State Highway
- County Boundary
- - - Air District Boundary
- Air Basin**
- San Joaquin Valley
- Mojave Desert
- South Central Coast
- Segment**
- R
- Adjacent/Other Study Area Visible



**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.



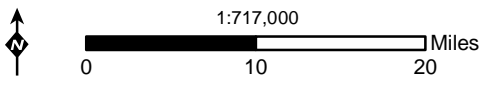


**Attachment A: Air Basins and Air Districts Maps**  
**Study Area 4B**

**Angeles Link Phase 1**  
**Environmental Analysis**

- Interstate
  - State Highway
  - County Boundary
  - - - Air District Boundary
- Air Basin**
- South Coast
  - Mojave Desert
- Segment**
- F
  - Adjacent/Other Study Area Visible

**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\AQ\_GHG\_Pipeline.mxd 7/16/2024

**Attachment A: Air Basins and Air Districts Maps  
Study Area 4C**

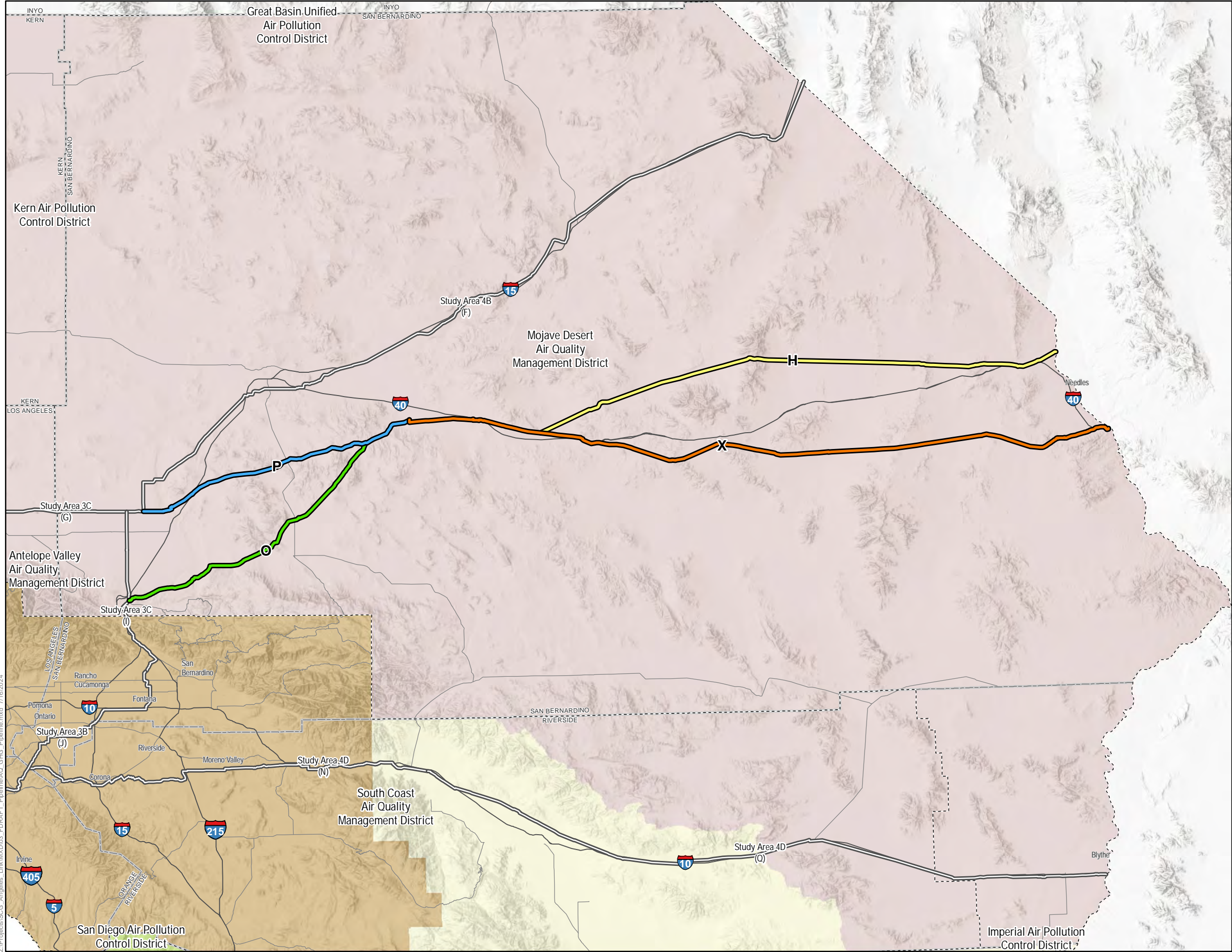
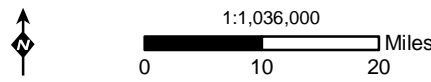
**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- County Boundary
- - - Air District Boundary

- Air Basin**
- Salton Sea
  - South Coast
  - Mojave Desert
  - San Diego County

- Segment**
- H
  - O
  - P
  - X
  - Adjacent/Other Study Area Visible

**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.

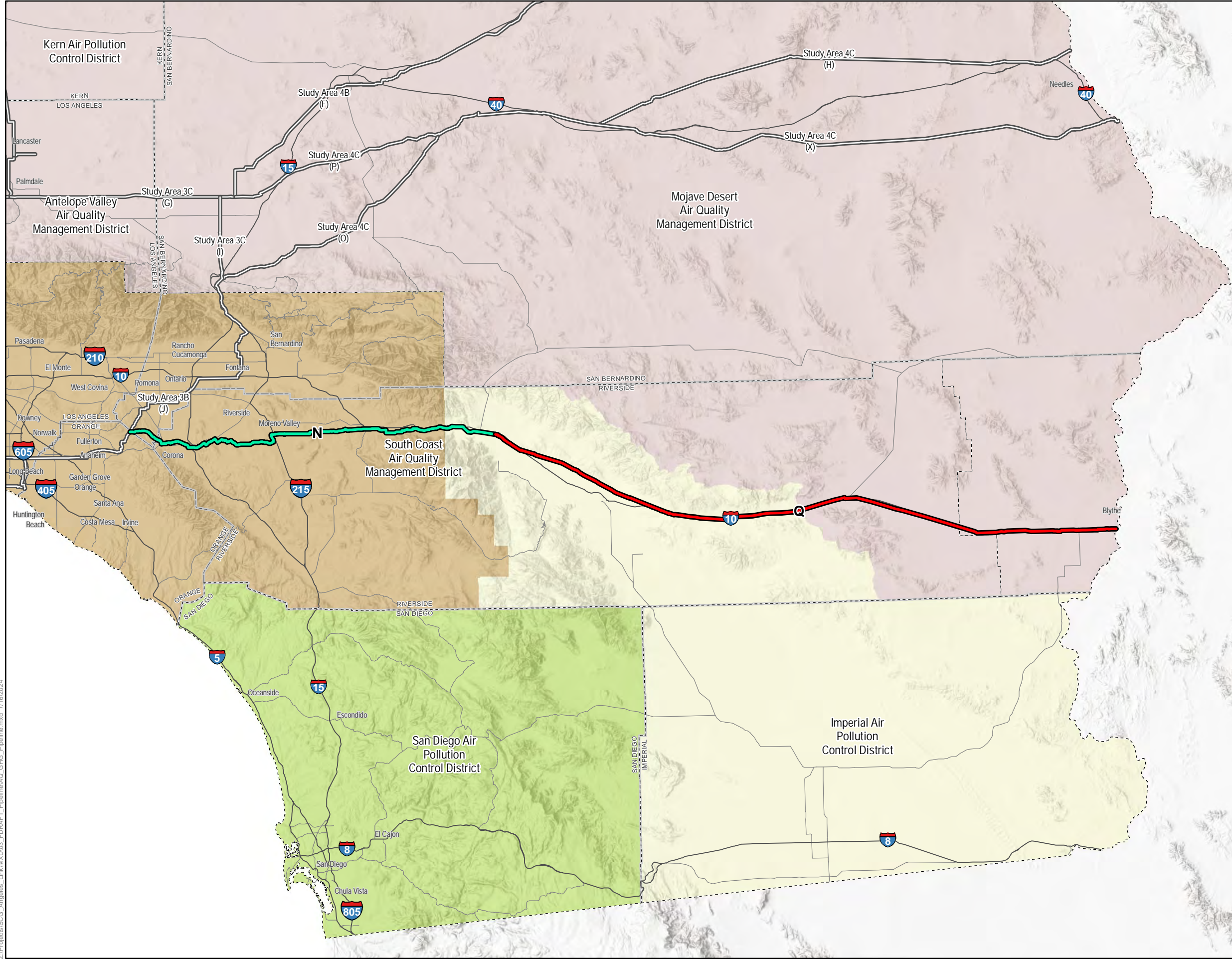


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\AQ\_GHG\_Pipeline.mxd 7/16/2024

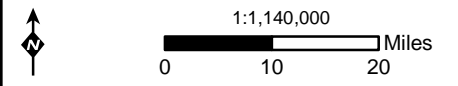
**Attachment A: Air Basins and Air Districts Maps  
Study Area 4D**

**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- County Boundary
- - - Air District Boundary
- Air Basin**
- Salton Sea
- South Coast
- Mojave Desert
- San Diego County
- Segment**
- N
- Q
- Adjacent/Other Study Area Visible



**Note:** California is comprised of 15 air basins and 35 air districts. Each air basin can contain one or more air district and air districts may span more than one air basin.







**ATTACHMENT B-1: VEGETATION COMMUNITIES WITHIN THE 200-FOOT-WIDE  
CORRIDOR**



**ATTACHMENT B-1: VEGETATION COMMUNITIES WITHIN THE 200-FOOT-WIDE CORRIDOR**

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
<b>Study Area 1A</b>			
C	Alkali Desert Scrub	0.4	N/A
	Alkali Desert Scrub, Desert Scrub	4.6	0.2
	Annual Grassland	598.0	25.0
	Annual Grassland, Alkali Desert Scrub	51.9	2.1
	Barren	16.1	0.7
	Cropland	199.8	8.3
	Deciduous Orchard	0.1	N/A
	Deciduous Orchard, Evergreen Orchard, Vineyard, Irrigated Row and Field Crops	731.8	31.1
	Dryland Grain Crops	27.3	0.9
	Evergreen Orchard	6.1	0.1
	Irrigated Hayfield	3.5	0.2
	Irrigated Row and Field Crops	18.2	0.8
	Urban	277.2	10.5
	Valley Foothill Riparian	0.7	<0.1
	Vineyard	0.2	N/A

<sup>1</sup> For boxes in this column that are not applicable (N/A), it was determined that the pipeline centerline would not cross this habitat type.

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
<b>Study Area 1B</b>			
B	Alkali Desert Scrub	3.9	0.3
	Annual Grassland	109.8	4.6
	Barren	62.2	3.1
	Chamise-Redshank Chaparral	6.1	0.3
	Coastal Oak Woodland	18.3	0.6
	Coastal Scrub	122.2	4.9
	Desert Scrub	9.5	0.4
	Desert Wash	0.5	<0.1
	Irrigated Row and Field Crops	0.5	<0.1
	Joshua Tree	25.6	1.4
	Juniper	50.8	1.7
	Lacustrine	1.3	0.1
	Mixed Chaparral	177.6	7.1
	Montane Chaparral	8.5	0.2
	Sagebrush	56.3	2.2
Urban	452.7	18.9	
Valley Foothill Riparian	2.1	<0.1	
<b>Study Area 2</b>			
A	Annual Grassland	5.2	0.1
	Barren	0.3	N/A

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
	Coastal Scrub	0.1	N/A
	Lacustrine	0.6	<0.1
	Urban	662.3	27.5
S	Annual Grassland	<0.1	N/A
	Barren	0.1	N/A
	Lacustrine	2.3	0.1
	Urban	219.2	9.1
T	Urban	209.5	8.6
U	Annual Grassland	9.2	0.4
	Barren	4.0	0.2
	Lacustrine	0.2	<0.1
	Urban	159.2	6.6
V	Annual Grassland	0.1	N/A
	Urban	70.8	2.9
W	Annual Grassland	<0.1	N/A
	Lacustrine	0.5	<0.1
	Urban	126.6	5.2
<b>Study Area 3A</b>			
D	Barren	0.1	<0.1
	Evergreen Orchard	0.2	<0.1
	Lacustrine	1.4	0.1

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
	Urban	181.1	7.4
<b>Study Area 3B</b>			
J	Annual Grassland	168.4	6.8
	Barren	13.9	0.4
	Coastal Oak Woodland	3.6	0.1
	Coastal Scrub	15.9	0.8
	Deciduous Orchard	0.7	N/A
	Desert Wash	2.8	0.1
	Eucalyptus	0.3	<0.1
	Evergreen Orchard	0.9	<0.1
	Mixed Chaparral	21.0	0.8
	Pasture	112.6	4.6
	Urban	1118.1	46.6
<b>Study Area 3C</b>			
G	Alkali Desert Scrub	27.8	1.3
	Annual Grassland	44.6	1.5
	Barren	0.5	N/A
	Bitterbrush	2.8	0.1
	Desert Riparian	2.8	0.1
	Desert Scrub	446.6	19.0
	Desert Wash	14.7	0.6

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
	Irrigated Row and Field Crops	50.3	1.7
	Joshua Tree	70.6	3.0
	Juniper	13.9	0.6
	Sagebrush	48.1	2.1
	Urban	234.3	9.5
I	Annual Grassland	3.1	0.1
	Barren	21.1	1.3
	Chamise-Redshank Chaparral	16.4	0.7
	Chamise-Redshank Chaparral, Mixed Chaparral	7.5	0.3
	Coastal Scrub	5.3	<0.1
	Desert Riparian	4.9	0.2
	Desert Scrub	182.2	7.7
	Desert Scrub, Desert Wash	0.8	<0.1
	Desert Wash	75.4	2.7
	Irrigated Row and Field Crops	0.8	0.1
	Joshua Tree	37.8	1.7
	Juniper	1.0	N/A
	Lacustrine	1.1	<0.1
	Mixed Chaparral	245.6	9.8
	Riverine	0.5	N/A
Sagebrush	34.3	1.6	

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
	Urban	135.6	5.7
<b>Study Area 3D</b>			
E	Alkali Desert Scrub	233.2	10.2
	Annual Grassland	30.0	0.6
	Desert Scrub	258.5	11.0
	Joshua Tree	7.0	0.3
	Sagebrush	3.0	0.1
	Urban	207.6	8.2
L	Annual Grassland	74.2	3.0
	Deciduous Orchard, Evergreen Orchard, Vineyard, Irrigated Row and Field Crops	150.2	6.3
	Lacustrine, Riverine	0.5	<0.1
	Valley Foothill Riparian, Desert Riparian	2.8	0.1
M	Alkali Desert Scrub, Desert Scrub	3.2	0.2
	Annual Grassland	426.8	17.0
	Barren	11.6	0.4
	Blue Oak Woodland	53.2	2.1
	Blue Oak-Foothill Pine	16.6	0.7
	Blue Oak-Foothill Pine, Blue Oak Woodland	5.1	N/A
	Coastal Scrub	23.2	1.0
	Cropland	29.6	1.2



Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
	Deciduous Orchard, Evergreen Orchard, Vineyard, Irrigated Hay Field	62.1	2.5
	Deciduous Orchard, Evergreen Orchard, Vineyard, Irrigated Row and Field Crops	212.4	8.8
	Desert Riparian	0.7	<0.1
	Desert Scrub	94.6	3.9
	Desert Scrub, Desert Wash	6.3	0.3
	Desert Wash	2.6	0.1
	Joshua Tree	48.5	2.0
	Juniper	22.0	0.9
	Lacustrine	0.1	N/A
	Lacustrine, Riverine	0.3	<0.1
	Mixed Chaparral	14.5	0.6
	Montane Hardwood	0.6	<0.1
	Montane Riparian	0.9	<0.1
	Sagebrush	114.8	2.5
	Urban	84.4	6.6
	Valley Foothill Riparian	2.2	0.1
	Valley Oak Woodland	3.3	0.2
<b>Study Area 3E</b>			
K	Annual Grassland	426.4	17.6

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
	Barren	78.5	4.3
	Blue Oak Woodland	5.8	0.1
	Chamise-Redshank Chaparral	18.4	0.8
	Coastal Oak Woodland	0.3	N/A
	Coastal Scrub	195.3	8.0
	Desert Wash	0.1	N/A
	Juniper	6.9	0.2
	Mixed Chaparral	192.2	7.5
	Montane Hardwood	4.2	0.1
	Montane Riparian	2.4	0.1
	Pasture	5.1	0.2
	Pinyon-Juniper	2.6	0.1
	Sagebrush	103.6	4.1
	Urban	289.6	12.0
	Valley Foothill Riparian	5.7	0.2
	Valley Oak Woodland	1.5	<0.1
	Vineyard	0.2	N/A
	Wet Meadow	3.8	0.1
<b>Study Area 3F</b>			
Y	Annual Grassland	0.9	<0.1
	Barren	3.4	0.1

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

<b>Segment</b>	<b>Habitat Type</b>	<b>Approximate Area (acres)</b>	<b>Miles Crossed<sup>1</sup></b>
	Coastal Scrub	5.7	0.2
	Evergreen Orchard	3.2	0.2
	Lacustrine	0.2	N/A
	Mixed Chaparral	<0.1	N/A
	Urban	1161.8	48.1
<b>Study Area 4A</b>			
R	Alkali Desert Scrub	42.1	1.9
	Alkali Desert Scrub, Desert Scrub	419.7	15.4
	Annual Grassland	221.1	8.9
	Annual Grassland, Alkali Desert Scrub	44.0	2.0
	Barren	90.3	5.6
	Deciduous Orchard, Evergreen Orchard, Vineyard, Irrigated Row and Field Crops	1105.0	45.2
	Desert Wash	40.0	1.6
	Lacustrine, Riverine	1.9	0.1
	Urban	14.7	0.9
	Valley Foothill Riparian, Desert Riparian	1.1	<0.1
<b>Study Area 4B</b>			
F	Alkali Desert Scrub	176.7	7.2
	Annual Grassland	17.7	0.7
	Barren	69.2	2.8

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

<b>Segment</b>	<b>Habitat Type</b>	<b>Approximate Area (acres)</b>	<b>Miles Crossed<sup>1</sup></b>
	Bitterbrush	12.8	0.5
	Desert Riparian	83.9	3.5
	Desert Scrub	2426.7	100.6
	Desert Scrub, Desert Wash	5.3	0.2
	Desert Succulent Shrub	77.0	3.1
	Desert Wash	150.4	6.4
	Irrigated Row and Field Crops	4.7	0.2
	Joshua Tree	426.7	17.5
	Perennial Grassland	99.2	4.1
	Sagebrush	0.9	N/A
	Urban	137.0	5.4
	Valley Foothill Riparian	1.0	<0.1
<b>Study Area 4C</b>			
H	Barren	2.0	0.1
	Desert Scrub	1920.3	79.2
	Desert Succulent Shrub	142.5	5.9
	Desert Wash	156.6	6.5
	Urban	11.4	0.5
O	Alkali Desert Scrub	185.1	7.7
	Annual Grassland	38.6	1.6
	Barren	19.3	0.8

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
	Deciduous Orchard, Vineyard	1.8	N/A
	Desert Riparian	<0.1	N/A
	Desert Scrub	493.8	20.9
	Desert Scrub, Desert Wash	35.6	1.5
	Desert Succulent Shrub	118.0	4.7
	Desert Succulent Shrub, Desert Wash	22.6	0.9
	Desert Wash	5.4	0.3
	Joshua Tree	44.2	1.5
	Juniper	63.0	2.3
	Lacustrine	<0.1	N/A
	Mixed Chaparral	50.0	1.7
	Sagebrush	90.9	4.2
	Urban	110.2	4.7
P	Alkali Desert Scrub	23.9	0.9
	Annual Grassland	27.3	1.1
	Barren	0.8	<0.1
	Desert Riparian	0.7	<0.1
	Desert Scrub	1087.5	44.8
	Desert Scrub, Desert Wash	8.4	0.3
	Desert Succulent Shrub	11.0	0.4
	Desert Succulent Shrub, Desert Wash	0.6	<0.1

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

<b>Segment</b>	<b>Habitat Type</b>	<b>Approximate Area (acres)</b>	<b>Miles Crossed<sup>1</sup></b>
	Desert Wash	17.6	0.6
	Riverine	0.5	<0.1
	Urban	53.0	2.5
X	Alkali Desert Scrub	1.4	0.1
	Barren	31.4	1.3
	Desert Scrub	2740.9	113.3
	Desert Wash	241.2	9.8
	Riverine	1.5	<0.1
	Urban	7.6	0.3
<b>Study Area 4D</b>			
N	Annual Grassland	360.0	14.6
	Barren	56.8	2.4
	Coastal Oak Woodland	9.1	0.3
	Coastal Scrub	127.9	5.3
	Cropland	0.4	<0.1
	Cropland, Orchard - Vineyard	112.2	4.5
	Desert Scrub	137.9	5.4
	Desert Wash	43.1	1.7
	Dryland Grain Crops	<0.1	N/A
	Eucalyptus	5.5	0.3
	Fresh Emergent Wetland	0.8	<0.1

Attachment B-1: Vegetation Communities Within the 200-Foot-Wide Corridor

Segment	Habitat Type	Approximate Area (acres)	Miles Crossed <sup>1</sup>
	Lacustrine	2.4	0.1
	Mixed Chaparral	33.4	1.1
	Riverine, Lacustrine	2.8	0.1
	Urban	981.4	41.6
	Valley Foothill Riparian	13.2	0.5
Q	Alkali Desert Scrub	36.4	1.5
	Annual Grassland	0.1	N/A
	Barren	266.3	11.3
	Cropland	35.3	1.1
	Deciduous Orchard	0.5	N/A
	Deciduous Orchard, Vineyard	37.9	1.6
	Desert Riparian	0.5	<0.1
	Desert Scrub	2067.4	85.0
	Desert Scrub, Desert Wash	3.5	0.1
	Desert Wash	308.6	12.9
	Dryland Grain Crops	10.5	0.4
	Irrigated Hayfield	37.3	1.1
	Irrigated Row and Field Crops	11.6	0.4
	Orchard - Vineyard	1.1	<0.1
	Pasture	0.5	<0.1
Urban	153.1	6.9	





**ATTACHMENT B-2: HABITAT TYPE DESCRIPTIONS**



## ATTACHMENT B-2: HABITAT TYPE DESCRIPTIONS

The habitat type descriptions included in the following table are derived directly from the habitat type's structure, composition, and physical setting information developed by the California Wildlife Habitat Relationships System California Department of Fish and Game (CDFG) California Interagency Wildlife Task Group<sup>1</sup> and originally published in 1988 by CDFG<sup>2</sup>.

Habitat Type	Habitat Type Description
Alkali Desert Scrub	Generally subdivided into two phases: xerophytic and halophytic. The xerophytic phase is composed of primary species such as various species of shrubby saltbushes, especially allscale, desert holly, fourwing saltbush, Nuttall saltbush, big saltbush, Parry saltbush, shadscale, Torrey salt bush, and western Mojave saltbush. Some of the primary perennial shrub and subshrub species of the halophytic phase include arrow-weed, black greasewood, alkali goldenbush; species of kochia, iodinebush, alkali rubber rabbitbrush; species of seablite, in particular, alkali blite, and Mojave seablite; and species of saltbush and saltcedar. Alkali Scrub types can generally be found surrounding the receding shores of large prehistoric lakes or alkali playas that mark the locations of dry lake beds.
Annual Grassland	Introduced annual grasses such as include wild oats, soft chess, ripgut brome, red brome, wild barley, and foxtail fescue are the dominant plant species in this habitat. Annual Grassland habitat occurs mostly on flat plains to gently rolling foothills. Common soil orders include Entisols and Alfisols.
Barren	Defined by the absence of vegetation. Any habitat with <2% total vegetation cover by herbaceous, desert, or non-wildland species and <10% cover by tree or shrub species is defined this way. The physical settings for permanently barren habitat represent extreme environments for vegetation.
Bitterbrush	Only occasionally found in pure stands. Antelope bitterbrush often occurs as a codominant with big sagebrush or rubber rabbitbrush. It is also found with gray horsebrush, Douglas rabbitbrush, Mormon tea, curlleaf mountain mahogany, and desert peach. Bitterbrush is found on flats and slopes with deep, well-drained, rapidly permeable soils having a slightly acid reaction.
Blue Oak Woodland	Blue oak is the dominant species, comprising 85 to 100 percent of the trees present. Common associates in the canopy are coast live oak in the Coast Range, interior live oak in the Sierra Nevada, valley oak where deep soil has formed, and western juniper in the Cascade Range. In the Tehachapi and Paiute Ranges in Kern County, this habitat mixes with species from east of the mountains California juniper and single-leaf pinyon. Blue Oak Woodlands are usually associated with shallow, rocky, infertile, well-drained soils from a variety of parent materials.
Blue Oak-Foothill Pine	Blue oak and foothill pine typically comprise the overstory of this habitat, with blue oak usually most abundant. Stands dominated by foothill pine tend to lose their blue oak, which is intolerant of shade. The habitat occurs in a typically Mediterranean climate hot, dry summers and cool, wet winters.
Chamise-Redshank Chaparral	May consist of nearly pure stands of chamise or redshank, a mixture of both, or with other shrubs. The purest stands of chamise occur on xeric, south-facing slopes. Chamise-dominated stands are most common on south- and west-facing slopes; redshank is found on all aspects.
Coastal Oak Woodland	Composition of both overstory trees and understory of coastal oak woodland varies and reflects the environmental diversity over which this habitat occurs. From Sonoma County south, the coastal oak woodlands are usually dominated by coast live oak. In many coastal regions, coast live oak is the only overstory species. In mesic sites, trees characteristic of mixed evergreen forests mix with coast live oak, such as California bay, madrone, tanbark oak, and canyon live oak. On drier, interior sites, coast live oak mixes with valley oak, blue oak, and foothill pine. Coastal oak woodlands occupy a variety of mediterranean type climates that vary from north to south and west to east.
Coastal Scrub	No single species is typical of all Coastal Scrub stands. As with structure, composition changes most markedly with progressively more xeric conditions from north to south along the coast. With the change from mesic to xeric sites, dominance appears to shift from evergreen species in the north to drought-deciduous species in the south. Coastal Scrub seems to tolerate drier conditions than its associated habitats. It is typical of areas with steep, south-facing slopes; sandy, mudstone or shale soils; and average annual rainfall of less than 30 cm (12 in). However, it also regularly occurs on stabilized dunes, flat terraces, and moderate slopes of all aspects where average annual rainfall is up to 60 cm (24 in).
Cropland	Cropland vegetation is grown as a monoculture, using tillage or herbicides to eliminate unwanted vegetation. Croplands are located on flat to gently rolling terrain.

<sup>1</sup> More information about each habitat type can be found at <https://wildlife.ca.gov/Data/CWHR/Wildlife-Habitats>.

<sup>2</sup> California Department of Fish and Game. 1988. *A Guide to Wildlife Habitats of California*. Kenneth E. Mayer and William F. Laudenslayer, Hr. (Eds.). Sacramento, CA.

Habitat Type	Habitat Type Description
Deciduous Orchard	The understory in deciduous orchards often has herbaceous annuals and perennials during the winter months. Numerous grasses and legumes are planted as cover crops in deciduous orchards either as single species or in mixes. Deciduous orchards can be found on flat alluvial soils in the valley floors, in rolling foothill areas, or on relatively steep slopes. Though some deciduous orchards are non-irrigated, most are irrigated.
Desert Riparian	Dominant canopy species of Desert Riparian habitats vary. Overstory species include tamarisk, velvet ash, mesquite, screwbean mesquite, Fremont cottonwood, and willows such as Gooding, Hinds, and arroyo. The subcanopy includes smaller individuals of the canopy species as well as quailbush, Mojave seablight, desert lavender, seep willow, and arrowweed. Soils vary from silty alluvial to rocky, sandy, well-drained substrates.
Desert Scrub	Creasotebush is often considered a dominant of Desert Scrub habitats, but its dominance is usually owing to its tall stature rather than density. Generally, Desert Scrub habitats have low species diversity; however, many plant species are found in the habitat. These species include catclaw acacia, desert agave, coastal bladderpod, white brittlebush, burrobush, white bursage, barrel and hedgehog cactus, branched pencil and teddybear cholla, Palmer's coldenia, Wiggins croton, desert globemallow, jojoba, littleleaf krameria, ocotillo, beavertail pricklypear, Douglas and rubber rabbitbrush, desert sand verbena, desert senna, squaw waterweed, Anderson's wolfberry, and Mojave yucca. Desert Scrub habitats are well developed on valley floors and lower bajadas.
Desert Succulent Shrub	Overstory dominants include succulents such as ocotillo, Mojave yucca, desert agave, buckhorn cholla, teddybear cholla, branched pencil cholla, beavertail pricklypear, grizzlybear pricklypear, hedgehog barrel cactus, barrel cactus, fishhook cactus, hedgehog cactus, and saguaro. The understory is comprised of species such as creosotebush, white bursage, and white brittlebush. Desert Succulent Shrub habitats are generally found on south facing slopes; however, bajadas with excellent drainage may also support stands
Desert Wash	The composition of desert wash plant assemblages depends on variables such as latitude, elevation, and precipitation. Generally, washes in the south are more diverse in plant species composition and vertical structure than washes to the north. Canopy species typically found in washes include blue palo verde, littleleaf paloverde, desert ironwood, smoketree, catclaw acacia, mesquite, screwbean mesquite, and tamarisk. Soils of Desert Wash habitats tend to be sandy; some wash plants (e.g., mesquite) may be found on a variety of soils. This habitat is often found in association with canyons, arroyos, washes, and other features that contain water for at least part of the year.
Dryland Grain Crops	Composed of crops such as barley, oats, wheat, and cereal rye. Non-irrigated grain and seed crops are often located on flat to gently rolling terrain. When flat terrain is put into crop production, it usually is leveled to facilitate irrigation. Rolling terrain is either dry farmed or irrigated by sprinklers.
Eucalyptus	Overstory composition is typically limited to one species of the genus, or mixed stands composed of other species of the same genus; few native overstory species are present within eucalyptus planted areas, except in small, cleared pockets. The most common species is blue gum followed by red gum. Eucalyptus habitats have been extensively planted throughout the state since their introduction in 1856 with large-scale planting operations beginning in 1870. As such, they are found in locations with highly variable site characteristics. Generally, they are found on relatively flat or gently rolling terrain, occasionally in the foothills.
Evergreen Orchard	Composed of crops such as avocados, dates, olives, grapefruit, lemon, oranges, and other citrus types. The understory in evergreen orchards usually consists of bare soil or in a few instances a cover crop of herbaceous plants. The cover crop can be composed of either naturalized or planted domesticated herbaceous plants. Evergreen orchards can be found on flat alluvial soils in the valley floors, in rolling foothill areas, or on relatively steep slopes. All are irrigated.
Fresh Emergent Wetland	On the upper margins of Fresh Emergent Wetlands, saturated or periodically flooded soils support several moist soil plant species including big leaf sedge, baltic rush, redroot nutgrass and on more alkali sites, saltgrass. On wetter sites, common cattail, tule bulrush, river bulrush, and arrowhead are potential dominant species. Fresh emergent wetland habitats occur on virtually all exposures and slopes, provided a basin or depression is saturated or at least periodically flooded. However, they are most common on level to gently rolling topography. They are found in various landscape depressions or at the edge of rivers or lakes
Irrigated Hayfield	This habitat includes alfalfa fields and grass hayfields. This habitat occurs in variable climates, from hot and dry to cool and wet to cold and snowy.
Irrigated Row and Field Crops	Composed of crops such as asparagus, broccoli, carrots, cauliflower, and celery. Row and field crops are located on flat to gently rolling terrain. When flat terrain is put into crop production, it usually is leveled to facilitate irrigation. Rolling terrain usually irrigated by sprinklers. Soils often dictate the crops grown.
Joshua Tree	Rarely found as pure stands but generally are associated with other overstory trees and shrubs. Coexisting overstory species include California juniper, Utah juniper, singleleaf pinyon, and Mojave yucca. Joshua Tree habitats occur in broad valleys where soils are deep, on alluvial or rocky slopes, and on pediments with minimal runoff surrounding desert mountains and mesas. Soils must be well drained but may vary considerably in other characteristics.

Habitat Type	Habitat Type Description
Juniper	Soil depth and components and moisture influence composition of plants in Juniper habitats. Associated tree and shrub species, depending in part on species of juniper and its distribution, include white fir, Jeffrey and ponderosa pine, singleleaf pinyon, curl leaf mountain-mahogany, antelope bitterbrush, and big sagebrush. Western Juniper Woodland occurs on gentle slopes, alluvial fans canyon slopes and steep, rocky escarpments; Mountain Juniper Woodland on canyon slopes, steep and rocky escarpments, and glaciated bedrock; California Juniper Woodland on ridges, slopes, alluvial fans, and valley bottoms on soils that are porous, rocky, coarse, sandy, or silty, and often very shallow; and Utah Juniper Woodland on pediments, slopes, ridges, and ravines, on rocky or alluvial soils that are commonly well drained.
Lacustrine	Typical lacustrine habitats include permanently flooded lakes and reservoirs (e.g., Lake Tahoe and Shasta Lake), intermittent lakes (e.g., playa lakes) and ponds (including vernal pools) so shallow that rooted plants can grow over the bottom. Most permanent lacustrine systems support fish life; intermittent types usually do not. The relatively calm waters of lakes and ponds offer environmental conditions that contrast sharply with those of running water.
Mixed Chaparral	A floristically rich type that supports approximately 240 species of woody plants. Composition changes between northern and southern California and with precipitation regime, aspect, and soil type. Dominant species in cismontane Mixed Chaparral include scrub oak, chaparral oak, and several species of ceanothus and manzanita. Mixed Chaparral occurs on all aspects, but at lower elevations, it generally is found on north-facing slopes. This pattern is especially true in southern California.
Montane Chaparral	Varies markedly throughout California. Species composition changes with elevational and geographical range, soil type, and aspect. One or more of the following species usually characterize montane chaparral communities: whitethorn ceanothus, snowbrush ceanothus, greenleaf manzanita, pinemat manzanita, hoary manzanita, bitter cherry, huckleberry oak, sierra chinquapin, juneberry, fremont silktassel, Greene goldenweed, mountain mahogany, toyon, sumac and California buckthorn. Montane chaparral can be found on shallow to deep soils, on all exposures, and from gentle to relatively steep slopes. It may dominate on more xeric sites, but occurs locally throughout the coniferous forest zone.
Montane Hardwood	In the Coast Range and Klamath Mountains, canyon live oak often forms pure stands on steep canyon slopes and rocky ridge tops. It is replaced at higher elevations by huckleberry oak. Canyon live oak and associates are found on a wide range of slopes, especially those that are moderate to steep. Soils are for the most part rocky, alluvial, coarse textured, poorly developed, and well drained.
Montane Riparian	In northwest California along streams west of the Klamath Mountains, black cottonwood is a dominant hardwood. In some areas, it is codominant with bigleaf maple. In either case, black cottonwood can occur in association with dogwood and boxelder. At high elevations black cottonwood occurs with quaking aspen and white alder. In northeastern California, black cottonwood, white alder and thinleaf alder dominate the montane riparian zone. Oregon ash, willow and a high diversity of forbs are common associates. In the Sierra Nevada, characteristic species include thinleaf alder, aspen, black cottonwood, dogwood, wild azalea, willow and water birch (southern Sierra east of the crest), white alder and dogwood (north Sierra). In the southern Coast Range as well as Transverse and Peninsular ranges, bigleaf maple and California bay are typical dominants of montane riparian habitat. Fremont cottonwood is the most important cottonwood in the Sierra below 1524 m (5000 ft), much of the Coast Ranges and the Transverse and Peninsular ranges.
Orchard - Vineyard	Composed of crops categories including citrus, nuts, and fruit trees. The understory in both orchards and vineyards usually consists of bare soil or a cover crop of herbaceous plants. The cover crop can be composed of either natural or planted domesticated herbaceous plants. Orchards and vineyards can be found on flat alluvial soils in the valley floors, in rolling foothill areas, or on relatively steep slopes. Though some orchards are non-irrigated, most are irrigated.
Pasture	The mix of grasses and legumes varies according to management practices such as seed mixture, fertilization, soil type, irrigation, weed control, and the type of livestock on the pasture. Plant species seeded in pastures also vary with geographic area. In southern California, Bermuda grass is prevalent. Pastures are planted on flat and gently rolling terrain. Flat terrain is irrigated by the border and check method of irrigation, except on sandy soils or where water supplies are limited.
Perennial Grassland	Dominated by perennial grass species such as California oatgrass, Pacific hairgrass, and sweet vernalgrass. Perennial Grassland habitat typically occurs on ridges and south-facing slopes, alternating with forest and scrub in the valleys and on north-facing slopes. Perennial Grassland habitats are most often found on Mollisols.
Pinyon-Juniper	Overstory species composition at lower and mid-level elevations ranges from pure stands of pinyon, either singleleaf or Parry, to stands of pinyon mixed with juniper (western, Utah, or California), oaks (shrub live, California scrub, or canyon live), or Mojave yucca. At higher elevations, ponderosa and Jeffrey pine may be found in this habitat. Pinyon-juniper habitats generally are found on slopes that are steep, rocky, dry, and face east. Soils are mostly residual or recently weathered, typically rocky, coarse, porous, and well drained

Habitat Type	Habitat Type Description
Riverine	Intermittent or continually running water distinguishes rivers and streams. A stream originates at some elevated source, such as a spring or lake, and flows downward at a rate relative to slope or gradient and the volume of surface runoff or discharge.
Sagebrush	Often the habitat is composed of pure stands of big sagebrush, but many stands include other species of sagebrush, rabbitbrush, horsebrush, gooseberry, western chokecherry, curlleaf mountain mahogany, and bitterbrush. The Sagebrush habitat is a discontinuous strip along the east and northeast borders of California south to the 37th parallel.
Urban	Species composition in urban habitats varies with planting design and climate. Monoculture is commonly observed in tree groves and street tree strips. Urban habitats are not limited to any particular physical setting.
Valley Foothill Riparian	Dominant species in the canopy layer are cottonwood, California sycamore and valley oak. Subcanopy trees are white alder, boxelder and Oregon ash. Typical understory shrub layer plants include wild grape, wild rose, California blackberry, blue elderberry, poison oak, buttonbrush, and willows. Valley-foothill riparian habitats are found in valleys bordered by sloping alluvial fans, slightly dissected terraces, lower foothills, and coastal plains. They are generally associated with low velocity flows, flood plains, and gentle topography.
Valley Oak Woodland	Canopies of these woodlands are dominated almost exclusively by valley oaks. Tree associates in the Central Valley include California sycamore, Hinds black walnut, interior live oak, boxelder, and blue oak. This habitat occurs in a wide range of physiographic settings but is best developed on deep, well-drained alluvial soils, usually in valley bottoms. Most large, healthy valley oaks are probably rooted down to permanent water supplies.
Vineyard	Composed of crops such as boysenberries, olallieberries, raspberries, grapes, and kiwi. The understory in vineyards usually consist of bare soil or a cover crop of herbaceous plants. The cover crop can be composed of either natural or planted domesticated herbaceous plants. Vineyards can be found on flat alluvial soils in the valley floors, in rolling foothill areas, or on relatively steep slopes. All are irrigated.
Wet Meadow	Occur with a great variety of plant species; therefore, it is not possible to generalize species composition. Species may differ, but several genera are common to Wet Meadows throughout the State. They include Agrostis, Carex, Danthonia, Juncus, Salix, and Scirpus. Wet Meadows occur where water is at or near the surface most of the growing season, following spring runoff. Hydrologically, they occupy lotic, sunken concave, and hanging sites.

**ATTACHMENT B-3: PROTECTED SPECIES WITH THE POTENTIAL TO OCCUR**





**ATTACHMENT B-3: PROTECTED SPECIES WITH THE POTENTIAL TO OCCUR<sup>1</sup>**

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
1A	C	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	79.8	0.0	0.0	25,542.2	0.0	79.9	2,5542.2
		Blunt-nosed leopard lizard	<i>Gambelia sila</i>	SE, FE, FP	26.7	34.0	19.2	8,446.3	10,744.9	6,351.0		
		California red-legged frog	<i>Rana draytonii</i>	FT	1.9	9.0	69.0	654.7	2,849.2	22,038.3		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	79.8	0.0	0.0	25,542.2	0.0		
		Giant kangaroo rat	<i>Dipodomys ingens</i>	SE, FE	28.2	51.7	0.0	8,562.2	16,980.0	0.0		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	46.9	32.9	0.0	14,736.5	10,805.6	0.0		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	79.8	0.0	0.0	25,542.2	0.0		
		Nelson's antelope squirrel	<i>Amмосpermophilus nelsoni</i>	ST	46.1	33.8	0.0	14,337.4	11,204.8	0.0		
		San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	ST, FE	47.2	32.6	0.0	14,789.5	10,752.7	0.0		
		Swainson's hawk	<i>Buteo swainsoni</i>	ST	66.5	13.3	0.0	16,396.9	9,078.1	67.1		
		Temblor legless lizard	<i>Anniella alexanderae</i>	SC	0.0	5.4	74.5	0.0	1,774.5	23,767.6		
		Tipton kangaroo rat	<i>Dipodomys nitratooides nitratooides</i>	SE, FE	0.0	29.1	50.8	0.0	9,244.9	16,297.2		
Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	79.8	0.0	0.0	25,542.2	0.0				

<sup>1</sup> Sources:California Department of Fish and Wildlife (CDFW). 2023a. CNDDDB – Plants and Animals. Online. <https://wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>. Site visited October 18, 2023.CDFW. 2023b. Threatened and Endangered Species. Online. <https://wildlife.ca.gov/Conservation/CESA>. Site visited December 21, 2023.CDFW. 2023c. Fully Protected Animals. Online. <https://wildlife.ca.gov/Conservation/Fully-Protected>. Site visited December 21, 2023.<sup>2</sup> Explanation of federal and state listing codes:

## Federal listing codes:

- FT: Federally listed as threatened
- FE: Federally listed as endangered
- FPT: Federally proposed as threatened
- FDR: Federally delisted (Recovered)

## California listing codes:

- SE: State-listed as endangered
- ST: State-listed as threatened
- SR: State-listed as rare
- SC: State candidate for listing
- FP: CDFW-designated as fully protected

<sup>3</sup> The buffer includes 0.25 mile on either side of a segment centerline.<sup>4</sup> For bald eagles (*Haliaeetus leucocephalus*) and golden eagles (*Aquila chrysaetos*), a one-mile buffer on either side of a segment centerline was used.

Attachment B-3: Protected Species with the Potential to Occur

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Western pond turtle	<i>Emys marmorata</i>	FPT	28.2	51.6	0.0	8,584.3	16,957.8	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	22.8	57.1	0.0	7,256.7	18,285.5		
		Western spadefoot	<i>Spea hammondi</i>	FPT	28.3	51.6	0.0	8594.0	16,948.1	0.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	40.8	39.1	0.0	10076.3	15,465.9	0.0		
1B	B	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.1	35.3	10.3	58.2	11,189.5	3,309.7	45.7	14,557.5
		Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	31.6	14.1	0.0	10,037.0	4,520.4		
		California condor	<i>Gymnogyps californianus</i>	SE, FE, FP	0.0	1.4	44.3	0.0	467.6	14,089.9		
		Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	1.6	27.0	17.1	570.9	8,492.0	5,494.6		
		California Orcutt grass	<i>Orcuttia californica</i>	SE, FE	8.7	19.1	17.9	2,726.0	6,024.2	5,807.2		
		California red-legged frog	<i>Rana draytonii</i>	FT	9.9	35.0	0.9	3,406.6	10,815.3	335.6		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	45.7	0.0	0.0	14,557.5	0.0		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	1.3	12.7	31.7	550.0	3,970.5	10,037.0		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	23.0	22.2	0.5	7,639.1	6,704.5	213.8		
		Joshua tree	<i>Yucca brevifolia</i>	SC	1.4	16.2	28.1	255.4	5,352.9	8,949.1		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	36.6	9.0	22.9	11,539.8	2,994.7		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	45.7	0.0	0.0	14,557.5	0.0		
		San Bernardino kangaroo rat	<i>Dipodomys merriami parvus</i>	SE, FE	0.0	26.9	18.8	0.0	8,464.8	6,092.6		
		San Fernando Valley spineflower	<i>Chorizanthe parryi</i> var. <i>fernandina</i>	SE	0.0	26.9	18.8	0.0	8,464.5	6,093.0		
		Santa Ana sucker	<i>Catostomus santaanae</i>	FT	0.0	0.1	45.6	0.0	62.7	14,494.8		
		Slender-horned spineflower	<i>Dodecahema leptoceras</i>	SE, FE	0.0	27.0	18.7	0.0	8,467.0	6,090.4		
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	28.6	17.1	0.0	9,018.8	5,538.7				
Swainson's hawk	<i>Buteo swainsoni</i>	ST	10.1	4.0	24.6	3,180.3	1,341.0	10,036.2				

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	16.6	29.1	3.8	5,366.7	9,187.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	9.7	23.9	12.2	3,450.6	7,192.3	3,914.6		
		Western spadefoot	<i>Spea hammondi</i>	FPT	2.0	13.1	30.7	482.5	4,291.3	9,783.6		
		White-tailed kite	<i>Elanus leucurus</i>	FP	24.0	21.7	0.0	7,694.5	6,862.9	0.0		
2	A	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	27.6	0.0	0.0	8,791.8	0.0	27.6	8791.8
		Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	0.0	8.9	18.7	28.9	2,697.0	6,066.0		
		California least tern	<i>Sternula antillarum browni</i>	FE, SE, FP	0.0	26.2	1.4	10.2	8,264.2	517.4		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.2	27.4	0.0	213.3	8,578.5	0.0		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	27.6	0.0	0.0	8,791.8	0.0		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	5.5	22.1	0.0	1,802.3	6,989.6		
		Lyon's pentachaeta	<i>Pentachaeta lyonii</i>	SE, FE	1.6	0.0	26.0	473.6	0.0	8,318.3		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	27.6	0.0	0.0	8,791.8	0.0		
		Palos Verdes blue butterfly	<i>Glaucopsyche lygdamus palosverdesensis</i>	FE	13.7	0.0	13.9	4,492.1	0.0	4,299.7		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	27.6	0.0	52.6	8,739.3	0.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.2	27.4	0.0	274.4	8,517.4	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	27.6	0.0	0.0	8,791.8	0.0		
		Western spadefoot	<i>Spea hammondi</i>	FPT	1.0	26.6	0.0	403.6	8,388.2	0.0		
White-tailed kite	<i>Elanus leucurus</i>	FP	27.4	0.2	0.0	8,545.6	246.3	0.0				
2	S	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	9.1	0.0	0.0	2,913.8	38.1	9.2	2,951.8
		Belding's savannah sparrow	<i>Passerculus sandwichensis beldingi</i>	SE	0.0	2.0	7.1	44.7	721.6	2,185.6		
		California least tern	<i>Sternula antillarum browni</i>	FE, SE, FP	0.0	9.1	0.0	11.3	2,940.5	0.0		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.1	9.0	0.0	63.2	2,850.0	38.6		

Attachment B-3: Protected Species with the Potential to Occur

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	9.1	0.0	0.0	2,951.8	0.0		
		Green turtle	<i>Chelonia mydas</i>	FT	0.0	0.0	0.0	9.2	0.0	2,942.6		
		Lyon's pentachaeta	<i>Pentachaeta lyonii</i>	SE, FE	0.0	0.0	0.0	7.2	0.0	2,944.6		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	9.1	0.0	1.3	2,950.5	0.0		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	9.1	0.0	0.0	2,913.8	38.1		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.1	9.1	0.0	63.4	2,888.4	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	9.1	0.0	0.0	2,913.8	38.1		
		Western spadefoot	<i>Spea hammondi</i>	FPT	0.1	9.0	0.0	63.4	2,850.9	37.6		
		White-tailed kite	<i>Elanus leucurus</i>	FP	9.0	0.1	0.0	2,821.5	93.8	36.5		
2	T	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	8.6	0.0	0.0	2,841.9	0.0	8.6	2,841.9
		Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	0.0	0.8	7.9	0.0	303.2	2,538.6		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.0	8.6	0.0	16.2	2,825.6	0.0		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	8.6	0.0	0.0	2,841.9	0.0		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	8.6	0.0	0.0	2,841.9	0.0		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	8.6	0.0	0.0	2,841.9	0.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.0	8.6	0.0	16.2	2,825.6	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	4.4	4.3	0.0	1,415.1	1,426.7		
		Western spadefoot	<i>Spea hammondi</i>	FPT	0.0	8.6	0.0	16.2	2,825.6	0.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	8.6	0.0	0.0	2,825.6	16.2	0.0		
2	U	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	7.1	0.0	0.0	2,341.7	0.0	7.1	2341.7
		Belding's savannah sparrow	<i>Passerculus sandwichensis beldingi</i>	SE	0.0	1.7	5.4	0.0	458.8	1,883.0		
		California least tern	<i>Sternula antillarum browni</i>	FE, SE, FP	0.2	3.4	3.5	10.6	1,165.1	1,166.0		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.5	6.6	0.0	81.4	2,260.4	0.0		

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	7.1	0.0	0.0	2,341.7	0.0		
		Green turtle	<i>Chelonia mydas</i>	FT	0.1	0.0	7.0	94.5	0.0	2,247.2		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	7.1	0.0	6.2	2,335.5	0.0		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	1.3	5.8	0.0	299.4	2,042.3	0.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.5	6.6	0.0	93.9	2,247.9	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	7.1	0.0	0.0	2,341.7	0.0		
		Western spadefoot	<i>Spea hammondi</i>	FPT	0.5	6.6	0.0	81.4	2,260.4	0.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	6.5	0.6	0.0	2,241.0	100.8	0.0		
2	V	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	2.9	0.0	0.0	1,027.1	0.0	2.9	1,027.1
		Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	0.0	2.9	0.0	0.0	1,009.7	17.5		
		California least tern	<i>Sternula antillarum browni</i>	FE, SE, FP	0.0	2.9	0.0	1.7	1,025.4	0.0		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.0	2.3	0.6	6.6	824.7	195.8		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	2.9	0.0	0.0	1,020.9	6.2		
		El Segundo blue butterfly	<i>Euphilotes battoides allyni</i>	FE	0.3	0.2	2.4	69.2	111.8	846.1		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.1	2.8	0.0	17.4	1,009.7	0.0		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	2.9	0.0	0.0	1,027.1	0.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.0	2.9	0.0	18.5	1,008.5	0.1		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	2.9	0.0	5.5	1,021.6	0.0		
		Western spadefoot	<i>Spea hammondi</i>	FPT	0.0	2.9	0.0	18.5	1,008.6	0.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	2.9	0.0	0.0	1,007.0	20.2	0.0		
2	W	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	5.2	0.0	0.0	1,757.6	0.0	5.2	1,757.6
		Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	0.0	2.6	2.6	0.0	830.9	926.7		

Attachment B-3: Protected Species with the Potential to Occur

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		California least tern	<i>Sternula antillarum browni</i>	FE, SE, FP	0.0	4.9	0.3	0.0	1,594.5	163.1		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.0	5.2	0.0	19.7	1,737.8	0.0		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	5.2	0.0	0.0	1,757.6	0.0		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	2.6	2.6	0.0	830.9	926.7		
		Lyon's pentachaeta	<i>Pentachaeta lyonii</i>	SE, FE	1.8	0.0	3.4	565.7	0.0	1,191.9		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.2	5.1	0.0	27.4	1,730.2	0.0		
		Palos Verdes blue butterfly	<i>Glaucopsyche lygdamus palosverdesensis</i>	FE	2.7	0.0	2.5	893.9	0.0	863.7		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	5.2	0.0	0.0	1,757.6	0.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.0	5.2	0.0	19.7	1,737.8	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	5.2	0.0	0.0	1,757.6	0.0		
		Western spadefoot	<i>Spea hammondi</i>	FPT	0.0	5.2	0.0	19.7	1,737.8	0.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	5.2	0.0	0.0	1,737.8	19.7	0.0		
3A	D	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	7.5	0.0	0.0	2,485.2	0.0	7.5	2,485.2
		California red-legged frog	<i>Rana draytonii</i>	FT	0.1	7.5	0.0	22.1	2,463.1	0.0		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	7.5	0.0	0.0	2,485.2	0.0		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	7.5	0.0	0.0	2,485.2	0.0		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	7.5	0.0	0.0	2,485.2	0.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.1	7.5	0.0	22.1	2,463.1	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	7.5	0.0	0.0	2,485.2	0.0		
		Western spadefoot	<i>Spea hammondi</i>	FPT	0.1	7.5	0.0	22.1	2,463.1	0.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	7.4	0.1	0.0	2,456.3	28.9	0.0		
3B	J	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.0	16.1	44.1	18.5	5,124.3	13,913.5	60.2	19,056.4
		Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	60.2	0.0	0.0	19,056.4	0.0		

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	1.8	35.9	22.5	472.3	11,773.2	6,810.8		
		California least tern	<i>Sternula antillarum browni</i>	FE, SE, FP	0.1	0.0	60.1	53.5	0.0	19,002.9		
		California red-legged frog	<i>Rana draytonii</i>	FT	7.9	52.3	0.0	2193.7	16,862.6	0.0		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	60.2	0.0	0.0	19,056.4	0.0		
		Delhi Sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	FE	19.6	2.3	38.3	6,247.8	616.2	12,192.3		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	18.7	18.6	22.9	5,685.8	6,096.9	7,273.7		
		Joshua tree	<i>Yucca brevifolia</i>	SC	0.0	1.3	58.9	0.0	561.3	18,495.1		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.2	26.5	33.6	16.6	9,077.7	9,962.1		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	60.2	0.0	0.0	19,056.4	0.0		
		San Bernardino kangaroo rat	<i>Dipodomys merriami parvus</i>	SE, FE	0.2	22.1	37.9	151.9	7,115.6	11,788.8		
		Santa Ana River woollystar	<i>Eriastrum densifolium</i> ssp. <i>sanctorum</i>	SE, FE	0.0	2.7	57.5	0.0	1,258.4	17,798.0		
		Santa Ana sucker	<i>Catostomus santaanae</i>	FT	0.0	0.0	0.0	11.2	0.0	19,045.1		
		Slender-horned spineflower	<i>Dodecahema leptoceras</i>	SE, FE	0.0	2.7	57.5	0.0	907.6	18,148.8		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	27.4	32.8	0.0	8,476.8	10,579.6		
		Stephens' kangaroo rat	<i>Dipodomys stephensi</i>	ST, FT	6.9	30.4	22.9	1,811.2	9,971.0	7,274.1		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	28.5	31.7	9.6	9,076.6	9,970.2		
		Western pond turtle	<i>Emys marmorata</i>	FPT	7.9	52.3	0.0	2,193.8	16,862.5	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	8.8	51.5	0.0	2,808.7	16,247.7		
		Western spadefoot	<i>Spea hammondi</i>	FPT	7.1	53.1	0.0	1,913.0	17,143.3	0.0		
		Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	SE, FT	0.0	14.9	0.0	0.0	4,691.8	14,364.6		
		White-tailed kite	<i>Elanus leucurus</i>	FP	46.8	13.4	45.3	14,920.3	4,136.0	0.0		

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
3C	G	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.0	10.1	29.4	39.6	3,255.1	9,453.4	39.5	12,748.1
		California red-legged frog	<i>Rana draytonii</i>	FT	1.7	37.2	0.5	557.2	12,028.2	162.6		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	39.4	0.0	0.0	12,748.1	0.0		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	21.8	17.6	0.0	7,435.4	5,312.6	0.0		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	2.5	36.9	0.0	809.6	11,938.5	0.0		
		Joshua tree	<i>Yucca brevifolia</i>	SC	3.0	36.4	0.0	1,092.9	11,655.2	0.0		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	4.5	35.0	0.0	1,486.1	11,262.0		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	39.4	0.0	0.0	12,748.1	0.0		
		Swainson's hawk	<i>Buteo swainsoni</i>	ST	9.1	7.7	22.7	2,972.6	2,456.4	7,319.1		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	8.9	30.6	39.3	2,861.3	9,847.5		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.1	1.2	38.2	51.1	424.6	12,272.4		
		White-tailed kite	<i>Elanus leucurus</i>	FP	9.9	29.5	0.0	3,123.8	9,624.3	0.0		
3C	I	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.4	18.1	13.3	304.8	5,617.0	4,335.0	31.89	10,256.8
		Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	13.1	18.8	0.0	4,161.4	6,095.3		
		Coastal California gnatcatcher	<i>Poliophtila californica californica</i>	FT	0.0	9.4	22.5	0.0	3,029.5	7,227.2		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.3	31.6	0.0	484.7	9,772.0	0.0		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	31.9	0.0	0.0	10,256.8	0.0		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	9.3	9.5	13.1	2,774.8	3,320.8	4,161.2		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	12.7	19.2	0.0	4,037.9	6,218.8	0.0		
		Joshua tree	<i>Yucca brevifolia</i>	SC	1.7	22.4	7.8	514.8	7,263.9	2,478.0		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	18.8	13.1	0.0	6,025.0	4,231.8		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	31.9	0.0	0.0	10,256.8	0.0		
		San Bernardino kangaroo rat	<i>Dipodomys merriami parvus</i>	SE, FE	5.7	13.6	12.6	1,993.0	4,175.8	4,088.0		



Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Santa Ana River woollystar	<i>Eriastrum densifolium</i> ssp. <i>sanctorum</i>	SE, FE	0.3	8.1	23.5	82.3	2,644.0	7,530.4		
		Slender-horned spineflower	<i>Dodecahema leptoceras</i>	SE, FE	0.0	17.5	14.4	0.0	5,602.8	4,654.0		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	19.3	12.6	0.0	6,168.6	4,088.2		
		Stephens' kangaroo rat	<i>Dipodomys stephensi</i>	ST, FT	0.1	9.1	22.7	153.0	2,785.8	7,318.0		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	3.9	28.0	3.6	1,211.8	9,041.4		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.3	26.1	5.5	486.7	7,935.2	1,834.9		
		Western spadefoot	<i>Spea hammondi</i>	FPT	0.1	15.7	16.0	307.2	4,781.3	5,168.2		
		White-tailed kite	<i>Elanus leucurus</i>	FP	5.7	22.3	3.9	1,853.7	7,180.9	1,222.1		
3D	E	California red-legged frog	<i>Rana draytonii</i>	FT	0.5	8.4	21.6	426.9	2,443.9	6,900.5	30.5	9,771.2
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	30.5	0.0	0.0	9,771.2	0.0		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	11.2	19.3	0.0	3,319.6	6,451.6	0.0		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	1.0	29.5	0.0	377.3	9,393.9	0.0		
		Joshua tree	<i>Yucca brevifolia</i>	SC	0.3	30.2	0.0	94.2	9,677.1	0.0		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	4.3	26.2	0.0	1,379.6	8,391.6		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	30.5	0.0	0.0	9,771.2	0.0		
		Swainson's hawk	<i>Buteo swainsoni</i>	ST	9.6	20.9	0.0	3,263.5	6,507.7	0.0		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	30.5	0.0	0.0	9,771.2	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	1.6	28.9	0.0	445.6	9,325.6		
		White-tailed kite	<i>Elanus leucurus</i>	FP	8.7	21.8	0.0	2,823.2	6,948.0	0.0		
3D	L	Bakersfield cactus	<i>Opuntia basilaris</i> var. <i>treleasei</i>	SE, FE	0.0	5.7	4.8	0.0	1,846.5	1,574.6	10.4	3,421.1
		Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	1.9	8.5	0.0	570.3	2,850.7	0.0		
		Blunt-nosed leopard lizard	<i>Gambelia sila</i>	SE, FE, FP	1.6	8.8	0.0	541.7	2,879.4	0.0		

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		California condor	<i>Gymnogyps californianus</i>	SE, FE, FP	3.5	6.9	0.0	1,193.6	2,227.5	0.0		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	10.4	0.0	0.0	3,421.1	0.0		
		Giant kangaroo rat	<i>Dipodomys ingens</i>	SE, FE	0.1	6.4	3.9	95.5	2,018.4	1,307.1		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	0.1	10.3	0.0	95.5	3,325.6	0.0		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	10.4	0.0	0.0	3,421.1	0.0		
		Nelson's antelope squirrel	<i>Ammospermophilus nelsoni</i>	ST	0.1	10.3	0.0	95.5	3,325.6	0.0		
		San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	ST, FE	0.1	10.3	0.0	100.5	3,320.5	0.0		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	5.7	4.8	0.0	1,846.6	1,574.5		
		Swainson's hawk	<i>Buteo swainsoni</i>	ST	0.2	10.3	0.0	119.6	3,300.1	1.4		
		Tipton kangaroo rat	<i>Dipodomys nitratooides nitratooides</i>	SE, FE	0.0	10.4	0.0	0.0	3,421.1	0.0		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	10.4	0.0	0.0	3,421.1	0.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.1	10.3	0.0	106.6	3,314.4	0.0		
		Western spadefoot	<i>Spea hammondi</i>	FPT	0.1	10.3	0.0	106.6	3,314.4	0.0		
White-tailed kite	<i>Elanus leucurus</i>	FP	1.5	9.0	0.0	842.5	2,578.6	0.0				
3D	M	Bakersfield cactus	<i>Opuntia basilaris</i> var. <i>treleasei</i>	SE, FE	0.1	13.2	37.9	30.9	4,236.0	12,079.6	51.2	16,346.5
		Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	43.0	8.1	0.0	13,677.7	2,668.7		
		Blunt-nosed leopard lizard	<i>Gambelia sila</i>	SE, FE, FP	2.6	8.7	39.9	799.7	2,829.1	12,717.7		
		California condor	<i>Gymnogyps californianus</i>	SE, FE, FP	0.0	30.8	20.4	0.0	9,813.8	6,532.7		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	51.2	0.0	0.0	16,346.5	0.0		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	7.8	4.1	39.2	2,371.5	1,456.1	12,518.8		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	29.6	21.6	0.0	9,859.4	6,487.1	0.0		
		Joshua tree	<i>Yucca brevifolia</i>	SC	2.0	15.4	33.8	611.8	4,956.6	10,778.1		

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Kern mallow	<i>Eremalche parryi</i> ssp. <i>kernensis</i>	FE	0.0	0.0	0.0	14.9	0.0	16,331.6		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	51.2	0.0	0.0	16,346.5	0.0		
		Nelson's antelope squirrel	<i>Ammospermophilus nelsoni</i>	ST	0.1	8.6	42.4	21.9	2,604.0	13,720.6		
		San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	ST, FE	2.8	18.1	30.3	880.6	5,902.9	9,562.9		
		Southern rubber boa	<i>Charina umbratica</i>	ST	17.9	10.0	23.3	5,599.3	3,290.7	7,456.4		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	13.3	37.9	0.0	4,267.2	12,079.3		
		Swainson's hawk	<i>Buteo swainsoni</i>	ST	12.1	16.6	22.5	3,862.2	5,364.1	7,120.2		
		Tipton kangaroo rat	<i>Dipodomys nitratooides nitratooides</i>	SE, FE	0.0	20.8	30.3	0.0	6,729.9	9,616.6		
		Tracy's eriastrum	<i>Eriastrum tracyi</i>	SR	0.0	16.6	34.6	0.0	5,255.2	11,091.3		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	28.6	22.5	0.0	9,223.0	7,123.5		
		Western pond turtle	<i>Emys marmorata</i>	FPT	25.9	17.2	8.1	8,640.0	5,039.0	2,667.5		
		Western spadefoot	<i>Spea hammondi</i>	FPT	3.3	8.6	39.3	1,142.3	2,665.0	12,539.2		
		White-tailed kite	<i>Elanus leucurus</i>	FP	6.0	22.6	22.5	2,428.4	6,794.6	7,123.5		
3E	K	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.4	40.9	14.1	471.7	12,667.8	4,534.8	55.4	17,674.3
		Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	55.4	0.0	72.5	17,601.8	0.0		
		Blunt-nosed leopard lizard	<i>Gambelia sila</i>	SE, FE, FP	1.1	0.0	54.3	397.2	39.6	17,237.5		
		California condor	<i>Gymnogyps californianus</i>	SE, FE, FP	5.1	50.3	0.0	1,664.4	15,995.3	14.6		
		Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	0.0	41.7	13.8	3.4	13,224.8	4,446.1		
		California Orcutt grass	<i>Orcuttia californica</i>	SE, FE	7.6	34.0	13.8	2,474.4	10,753.8	4,446.1		
		California red-legged frog	<i>Rana draytonii</i>	FT	24.5	29.8	1.1	7,071.0	10,168.4	434.9		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	55.4	0.0	0.0	17,674.3	0.0		
		Giant kangaroo rat	<i>Dipodomys ingens</i>	SE, FE	1.1	0.0	54.3	397.2	39.6	17,237.5		

Attachment B-3: Protected Species with the Potential to Occur

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	39.3	16.1	0.0	12,759.8	4,914.5	0.0		
		Joshua tree	<i>Yucca brevifolia</i>	SC	0.0	11.8	43.6	0.0	3,710.6	13,963.7		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	1.3	40.3	13.8	268.2	12,960.0	4,446.1		
		Lyon's pentachaeta	<i>Pentachaeta lyonii</i>	SE, FE	0.0	0.0	55.4	0.0	1.8	17,672.5		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	55.4	0.0	0.0	17,674.3	0.0		
		Nelson's antelope squirrel	<i>Ammospermophilus nelsoni</i>	ST	1.1	0.0	54.3	397.2	39.6	17,237.5		
		San Bernardino kangaroo rat	<i>Dipodomys merriami parvus</i>	SE, FE	0.0	35.9	19.5	0.0	11,504.4	6,169.9		
		San Fernando Valley spineflower	<i>Chorizanthe parryi</i> var. <i>fernandina</i>	SE	0.0	39.3	16.1	0.0	12,462.0	5,212.3		
		San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	ST, FE	1.1	11.4	42.9	397.2	3,639.2	13,638.0		
		Santa Ana sucker	<i>Catostomus santaanae</i>	FT	0.1	0.0	55.3	136.7	0.0	17,537.5		
		Slender-horned spineflower	<i>Dodecahema leptoceras</i>	SE, FE	0.0	23.1	32.3	0.0	7,361.2	10,313.1		
		Southern rubber boa	<i>Charina umbratica</i>	ST	3.9	22.8	28.7	1,241.5	7,119.9	9,312.9		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	41.6	13.8	123.8	13,104.4	4,446.1		
		Swainson's hawk	<i>Buteo swainsoni</i>	ST	0.3	0.0	55.1	120.1	39.0	17,515.1		
		Tipton kangaroo rat	<i>Dipodomys nitratooides nitratooides</i>	SE, FE	0.0	4.1	51.3	0.0	1371.9	16,302.4		
		Tracy's eriastrum	<i>Eriastrum tracyi</i>	SR	0.0	7.6	47.8	10.8	2374.9	15,288.6		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.1	12.7	42.5	122.1	4,056.3	13,495.9		
		Unarmored threespine stickleback	<i>Gasterosteus aculeatus williamsoni</i>	SE, FE, FP	0.3	0.0	55.1	186.7	0.0	17,487.6		
		Western pond turtle	<i>Emys marmorata</i>	FPT	26.4	29.0	0.0	8,117.5	9,556.8	0.0		
		Western spadefoot	<i>Spea hammondi</i>	FPT	2.6	15.7	37.0	1,183.2	4,747.0	11,744.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	19.9	35.5	0.0	6,210.7	11,463.6	0.0		
3F	Y	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.0	18.9	29.7	25.0	6,007.4	9,319.6	48.56	15,352.0

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	48.6	0.0	0.0	15,352.0	0.0		
		Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	0.0	14.6	34.0	0.0	4,681.5	10,670.5		
		California least tern	<i>Sternula antillarum browni</i>	FE, SE, FP	0.0	0.0	0.0	0.0	60.7	15,291.3		
		California Orcutt grass	<i>Orcuttia californica</i>	SE, FE	0.0	0.0	0.0	0.0	69.6	15,282.4		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.2	48.3	0.0	288.7	15,063.3	0.0		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	48.6	0.0	17.3	15,334.7	0.0		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	8.5	40.0	0.0	2,771.6	12,580.4		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	48.6	0.0	0.0	15,352.0	0.0		
		Palos Verdes blue butterfly	<i>Glaucopsyche lygdamus palosverdesensis</i>	FE	0.0	8.5	0.0	163.3	0.0	15,188.7		
		San Bernardino kangaroo rat	<i>Dipodomys merriami parvus</i>	SE, FE	0.0	0.0	0.0	0.0	69.6	15,282.4		
		San Fernando Valley spineflower	<i>Chorizanthe parryi</i> var. <i>fernandina</i>	SE	0.0	0.0	0.0	0.0	69.6	15,282.4		
		Slender-horned spineflower	<i>Dodecahema leptoceras</i>	SE, FE	0.0	0.0	0.0	0.0	69.9	15,282.1		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	8.5	40.0	0.0	2771.2	12,580.8		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	48.6	0.0	27.9	15,324.2	0.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.2	48.3	0.0	288.7	15,063.3	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	10.1	38.5	0.0	3,225.3	12,126.7		
		Western spadefoot	<i>Spea hammondi</i>	FPT	0.0	48.5	0.0	166.1	15,185.9	0.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	48.4	0.2	0.0	14,934.1	417.9	0.0		
4A	R	Bakersfield cactus	<i>Opuntia basilaris</i> var. <i>treleasei</i>	SE, FE	0.0	16.6	65.1	0.0	5,357.2	20,715.9	81.7	26,073.1
		Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	81.7	0.0	0.0	26,073.1	0.0		

Attachment B-3: Protected Species with the Potential to Occur

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Blunt-nosed leopard lizard	<i>Gambelia sila</i>	SE, FE, FP	31.6	50.1	0.0	10,483.2	15,589.9	0.0		
		California condor	<i>Gymnogyps californianus</i>	SE, FE, FP	0.0	1.7	80.0	0.0	592.5	25,480.6		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	81.7	0.0	0.0	26,073.1	0.0		
		Giant kangaroo rat	<i>Dipodomys ingens</i>	SE, FE	31.2	46.9	3.7	10,485.4	143,55.6	1,232.1		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	15.8	65.9	0.0	5,051.4	2,1021.7	0.0		
		Kern mallow	<i>Eremalche parryi</i> ssp. <i>kernensis</i>	FE	2.4	40.8	38.4	457.5	13,319.2	12,296.3		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	81.7	0.0	0.0	26,073.1	0.0		
		Nelson's antelope squirrel	<i>Ammospermophilus nelsoni</i>	ST	39.2	42.5	0.0	12,346.8	13,726.3	0.0		
		San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	ST, FE	39.6	42.0	0.0	12,745.1	13,328.0	0.0		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	9.5	72.2	0.0	3,088.2	22,984.9		
		Swainson's hawk	<i>Buteo swainsoni</i>	ST	25.1	35.4	21.2	5,136.3	14,263.7	6,673.1		
		Temblor legless lizard	<i>Anniella alexanderae</i>	SC	0.0	21.2	60.5	28.8	6,820.1	19,224.2		
		Tipton kangaroo rat	<i>Dipodomys nitratooides nitratooides</i>	SE, FE	0.2	62.0	19.6	35.1	19,759.1	6,278.9		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.7	81.0	0.0	216.5	25,856.7	0.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	8.2	73.5	0.0	3,445.0	22,628.1	0.0		
		Western snowy plover	<i>Charadrius nivosus nivosus</i>	FT	0.0	33.0	48.6	0.0	10,542.8	15,530.3		
		Western spadefoot	<i>Spea hammondi</i>	FPT	31.5	50.2	0.0	10,749.1	15,324.0	0.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	21.0	60.7	0.0	4,115.9	21,957.2	0.0		
4B	F	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.0	8.4	144.2	6.7	2,671.7	46,197.9	152.7	48,876.3
		Bonytail	<i>Gila elegans</i>	SE, FE	0.0	0.5	152.2	0.0	223.8	48,652.5		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.3	13.3	139.2	172.0	4,185.1	44,519.2		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	43.2	109.5	0.0	13,748.4	35,127.9		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	137.5	14.7	0.5	43,199.7	5,455.6	221.0		

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	4.7	147.6	0.5	1,567.8	47,087.4	221.0		
		Joshua tree	<i>Yucca brevifolia</i>	SC	17.5	41.9	93.4	5,783.0	13,235.6	29,857.6		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.2	4.6	148.0	47.9	1,468.7	47,359.6		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	152.7	0.0	0.0	48,876.3	0.0		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.4	8.7	143.7	101.8	2,786.3	45,988.1		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.8	17.9	134.1	284.5	5,666.6	42,925.1		
		White-tailed kite	<i>Elanus leucurus</i>	FP	2.8	36.8	113.2	958.3	11,612.2	36,305.8		
4C	H	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	2.4	89.7	0.0	816.1	28,767.1	92.1	29,583.2
		Bonytail	<i>Gila elegans</i>	SE, FE	0.0	0.0	0.0	0.0	10.5	29,572.7		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	91.7	0.4	0.0	29,289.9	283.8	9.5		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	0.1	92.0	0.0	36.0	29,537.7	9.5		
		Joshua tree	<i>Yucca brevifolia</i>	SC	0.0	8.9	83.2	0.0	2,845.6	26,737.6		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	92.1	0.0	0.0	29,583.2	0.0		
		Razorback sucker	<i>Xyrauchen texanus</i>	SE, FE, FP	0.0	0.0	0.0	0.0	16.1	29,567.1		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	7.2	84.9	0.0	2,327.8	27,255.4		
		White-tailed kite	<i>Elanus leucurus</i>	FP	0.1	2.3	89.7	18.7	797.4	28,767.1		
		Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	SE, FT	0.0	9.0	83.0	0.0	2,888.1	26,695.1		
		Yuma Ridgway's rail	<i>Rallus obsoletus yumanensis</i>	ST, FE, FP	0.0	0.0	0.0	0.0	10.5	29,572.7		
4C	O	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.0	15.6	37.1	12.7	5,028.5	11,913.3	52.7	16,954.5
		California red-legged frog	<i>Rana draytonii</i>	FT	1.6	23.3	27.9	373.0	7,486.8	9,094.7		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	52.7	0.0	0.0	16,954.5	0.0		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	33.5	19.2	0.0	10,728.3	6,226.2	0.0		

Attachment B-3: Protected Species with the Potential to Occur

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	6.6	46.2	0.0	2,914.0	14,040.5	0.0		
		Joshua tree	<i>Yucca brevifolia</i>	SC	1.5	37.4	13.8	764.4	11,667.0	4,523.1		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	0.5	52.3	0.0	209.3	16,745.2		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	52.7	0.0	0.0	16,954.5	0.0		
		San Bernardino kangaroo rat	<i>Dipodomys merriami parvus</i>	SE, FE	0.0	4.4	48.4	0.0	1,451.9	15,502.6		
		Slender-horned spineflower	<i>Dodecahema leptoceras</i>	SE, FE	0.0	4.4	48.4	0.0	1,451.9	15,502.6		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	20.4	32.3	0.0	6,563.3	10,391.1		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.7	11.2	40.8	213.4	3,643.0	13,098.1		
		White-tailed kite	<i>Elanus leucurus</i>	FP	1.4	12.0	39.3	479.0	3,873.7	12,601.8		
4C	P	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.0	13.6	37.2	2.0	4,307.2	12,008.2	50.8	16,317.4
		California red-legged frog	<i>Rana draytonii</i>	FT	0.8	14.2	35.8	214.0	4,604.2	11,499.2		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	49.0	1.8	0.0	15,623.6	693.8		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	46.3	4.5	0.0	14,840.5	1,476.9	0.0		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	1.2	49.5	0.0	356.5	15,960.9	0.0		
		Joshua tree	<i>Yucca brevifolia</i>	SC	0.0	25.1	25.7	0.0	8,054.9	8,262.5		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	8.5	42.3	19.7	2,662.8	13,634.8		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	50.8	0.0	0.0	16,317.4	0.0		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.1	8.4	42.3	53.6	2,629.0	13,634.8		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	0.0	0.0	17.4	0.0	16,300.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.0	2.7	48.0	36.5	848.0	15,432.8		
		White-tailed kite	<i>Elanus leucurus</i>	FP	2.0	3.4	45.3	563.9	1217.4	14,536.1		
4C	X	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	3.5	121.2	0.0	1,082.5	38,872.6	124.8	39,955.1
		Bonytail	<i>Gila elegans</i>	SE, FE	0.1	1.3	123.4	61.1	428.1	39,465.9		



Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	124.1	0.6	0.1	39,505.8	355.4	94.0		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	1.3	123.4	0.1	491.1	39,369.8	94.3		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	124.8	0.0	0.0	39,955.1	0.0		
		Razorback sucker	<i>Xyrauchen texanus</i>	SE, FE, FP	0.0	0.1	124.7	0.2	64.1	39,890.8		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	1.4	123.4	0.0	489.0	39,466.2		
		White-tailed kite	<i>Elanus leucurus</i>	FP	0.2	3.3	121.2	131.3	951.3	38,872.5		
		Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	SE, FT	0.0	4.7	120.0	0.0	1,486.8	38,468.3		
		Yuma Ridgway's rail	<i>Rallus obsoletus yumanensis</i>	ST, FE, FP	0.0	8.9	115.9	24.2	2,850.9	37,080.0		
4D	N	Arroyo toad	<i>Anaxyrus californicus</i>	FE	0.4	6.8	70.8	141.3	2,084.9	22,496.3	77.9	24,722.4
		Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.2	66.7	11.1	54.5	21,084.0	3,583.9		
		Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	6.3	47.2	24.4	2,082.5	14,905.4	7,734.5		
		California red-legged frog	<i>Rana draytonii</i>	FT	22.3	51.5	4.2	7,211.2	16,131.8	1,379.4		
		Coachella Valley fringe-toed lizard	<i>Uma inornata</i>	SE, FT	7.4	3.6	66.9	2,348.3	1,235.8	21,138.4		
		Coachella Valley milk-vetch	<i>Astragalus lentiginosus</i> var. <i>coachellae</i>	FE	0.0	12.0	65.9	92.9	3,804.6	20,825.0		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.1	77.8	0.0	9.9	24,712.5	0.0		
		Delhi Sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	FE	0.0	0.6	77.4	0.0	179.8	24,542.6		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	3.3	7.7	66.9	1,091.1	2,492.9	21,138.4		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	31.7	46.2	0.0	10,690.7	14,031.8	0.0		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	2.0	68.0	7.9	678.3	21,578.5	2,465.6		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	77.9	0.0	0.0	24,722.4	0.0		

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		San Bernardino kangaroo rat	<i>Dipodomys merriami parvus</i>	SE, FE	4.8	18.7	54.4	1,963.2	5,590.9	17,168.3		
		Santa Ana sucker	<i>Catostomus santaanae</i>	FT	0.0	0.0	77.9	25.7	9.1	24,687.7		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	77.9	0.0	0.0	24,690.5	31.9		
		Stephens' kangaroo rat	<i>Dipodomys stephensi</i>	ST, FT	16.6	50.2	11.1	4,636.8	16,501.7	3,583.9		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.3	44.6	33.0	161.7	14,294.7	10,266.0		
		Western pond turtle	<i>Emys marmorata</i>	FPT	22.9	55.0	0.0	7,591.2	17,131.2	0.0		
		Western spadefoot	<i>Spea hammondi</i>	FPT	15.3	47.6	15.0	4,272.3	15,631.3	4,818.8		
		White-tailed kite	<i>Elanus leucurus</i>	FP	49.2	28.7	0.0	15,174.2	9,548.2	0.0		
		Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	SE, FT	0.4	8.7	68.8	140.4	2,729.0	21,853.0		
4D	Q	Bald eagle <sup>4</sup>	<i>Haliaeetus leucocephalus</i>	SE, FDR, FP	0.0	2.2	120.3	0.0	726.8	38,519.6	122.5	39,246.5
		Bonytail	<i>Gila elegans</i>	SE, FE	0.0	0.0	0.0	0.0	8.0	39,238.4		
		California red-legged frog	<i>Rana draytonii</i>	FT	0.0	0.2	122.3	0.0	81.4	39,165.1		
		Coachella Valley fringe-toed lizard	<i>Uma inornata</i>	SE, FT	35.3	0.9	86.3	11,137.0	474.5	27,634.9		
		Coachella Valley milk-vetch	<i>Astragalus lentiginosus var. coachellae</i>	FE	2.2	17.6	102.7	847.6	5,542.4	32,856.5		
		Crotch bumble bee	<i>Bombus crotchii</i>	SC	0.0	38.5	84.0	0.0	12,293.0	26,953.5		
		Desert tortoise	<i>Gopherus agassizii</i>	SE, FT	97.6	24.9	0.0	30,770.1	8,464.4	12.0		
		Elf owl	<i>Micrathene whitneyi</i>	SE	7.5	0.0	115.0	2,385.3	0.0	36,861.2		
		Golden eagle <sup>4</sup>	<i>Aquila chrysaetos</i>	FP	15.5	107.0	0.0	5,266.4	33,968.0	12.0		
		Least Bell's vireo	<i>Vireo bellii pusillus</i>	SE, FE	0.0	7.1	115.4	0.0	2,328.0	36,918.5		
		Monarch - California overwintering population	<i>Danaus plexippus plexippus</i> pop. 1	FC	0.0	122.5	0.0	0.0	39,246.5	0.0		
Razorback sucker	<i>Xyrauchen texanus</i>	SE, FE, FP	0.0	0.0	0.0	31.2	0.0	39,215.2				

Study Area	Segment	Common Name	Scientific Name	Listing Status <sup>2</sup>	Linear Miles of Segment Crossed			Acres Crossed within the 0.25-Mile Buffer <sup>3</sup>			Total Segment Length (Miles)	Total Area within 0.25-Mile Buffer (Acres)
					Likely to Occur	Unlikely to Occur	Does Not Occur	Likely to Occur	Unlikely to Occur	Does Not Occur		
		Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	SE, FE	0.0	70.5	52.0	0.0	22,622.2	16,624.3		
		Tricolored blackbird	<i>Agelaius tricolor</i>	ST	0.0	38.3	84.2	1.8	12,276.3	26,968.4		
		Western pond turtle	<i>Emys marmorata</i>	FPT	0.0	3.9	118.6	0.7	1,337.8	37,908.0		
		White-tailed kite	<i>Elanus leucurus</i>	FP	2.0	38.6	82.0	1,120.5	11,886.0	26,240.0		
		Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	SE, FT	0.8	7.9	113.8	312.6	2,531.6	36,402.3		
		Yuma Ridgway's rail	<i>Rallus obsoletus yumanensis</i>	ST, FE, FP	0.0	17.0	105.5	0.0	5,478.8	33,767.7		



**ATTACHMENT B-4: PROTECTED SPECIES LIKELIHOOD OCCURRENCE MAPS**

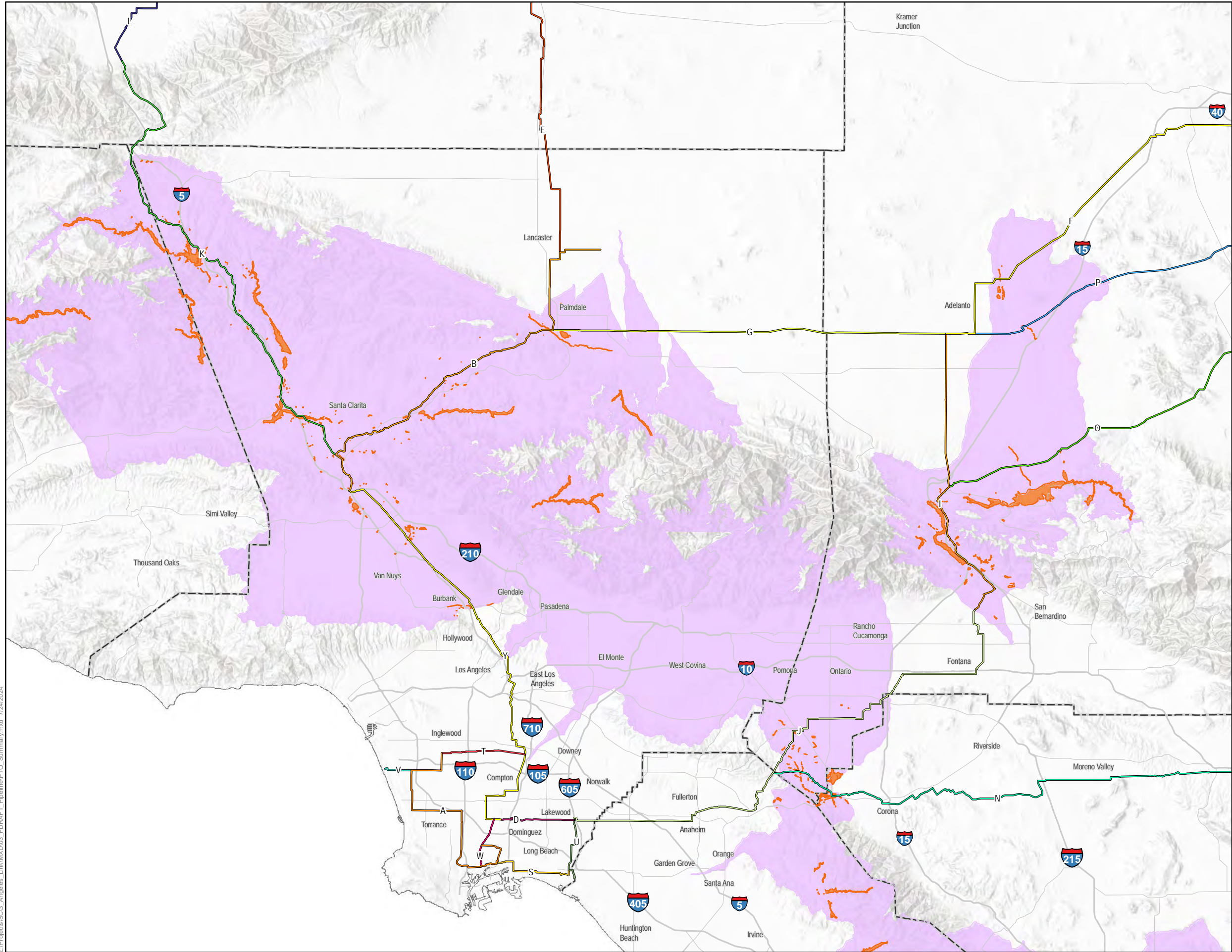
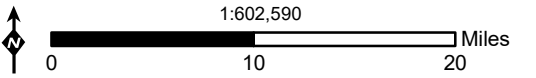


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Arroyo Toad**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
|                | — State Highway          |
|                | - - - County Boundary    |
|                | ■ Likely to Occur        |
|                | ■ Unlikely to Occur      |
|                | <b>Data Sources</b>      |
|                | • CNDDDB                 |
|                | • CWHR Predicted Habitat |
|                | • CWHR Species Range     |
|                | • USFWS Critical Habitat |

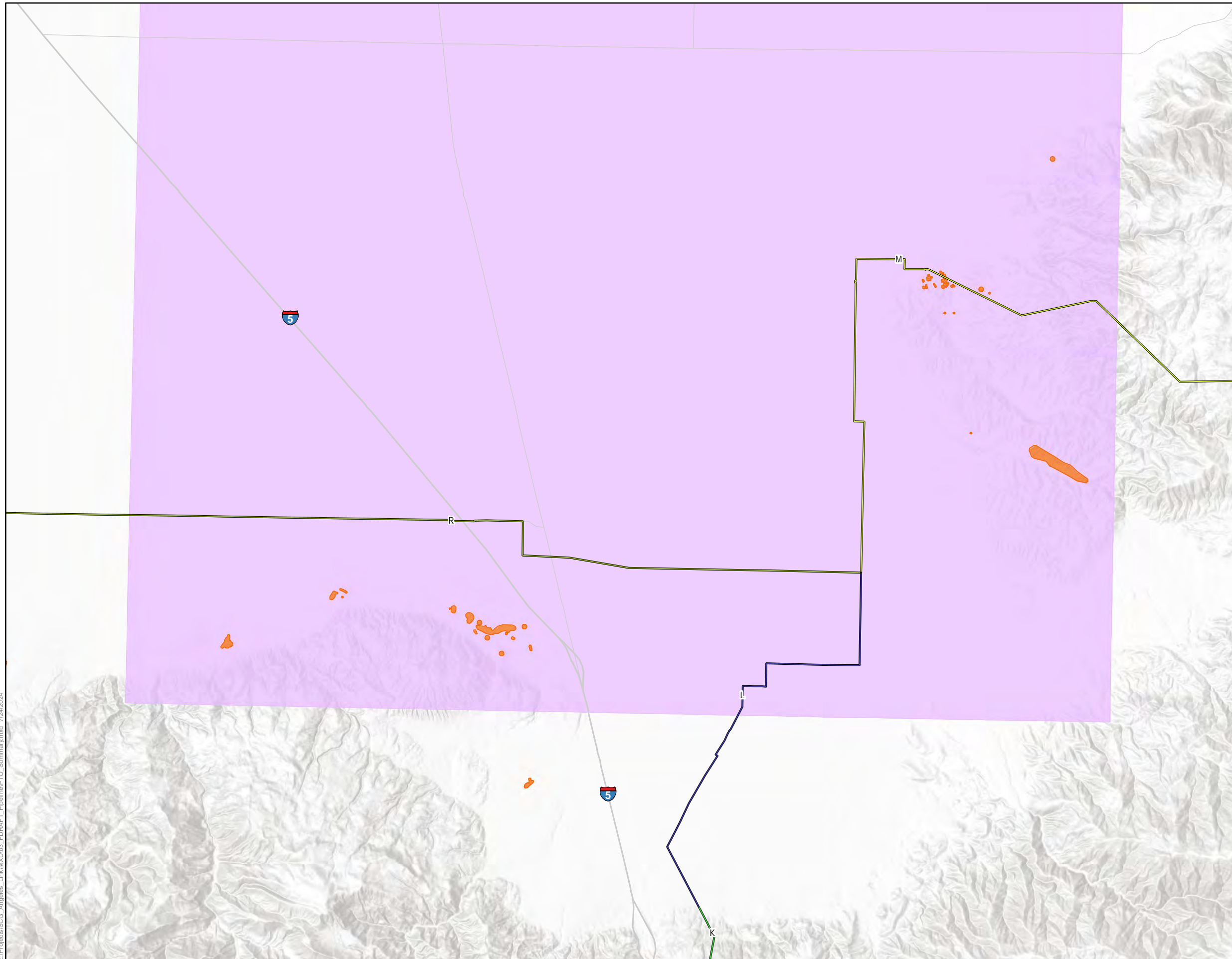
Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Bakersfield Cactus**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                     |
|----------------|---------------------|
| <b>Segment</b> | — Interstate        |
| — K            | — State Highway     |
| — L            | ● Likely to Occur   |
| — M            | ■ Unlikely to Occur |
| — R            | <b>Data Sources</b> |
|                | • CNDDDB            |
|                | • USFWS ECOS        |



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



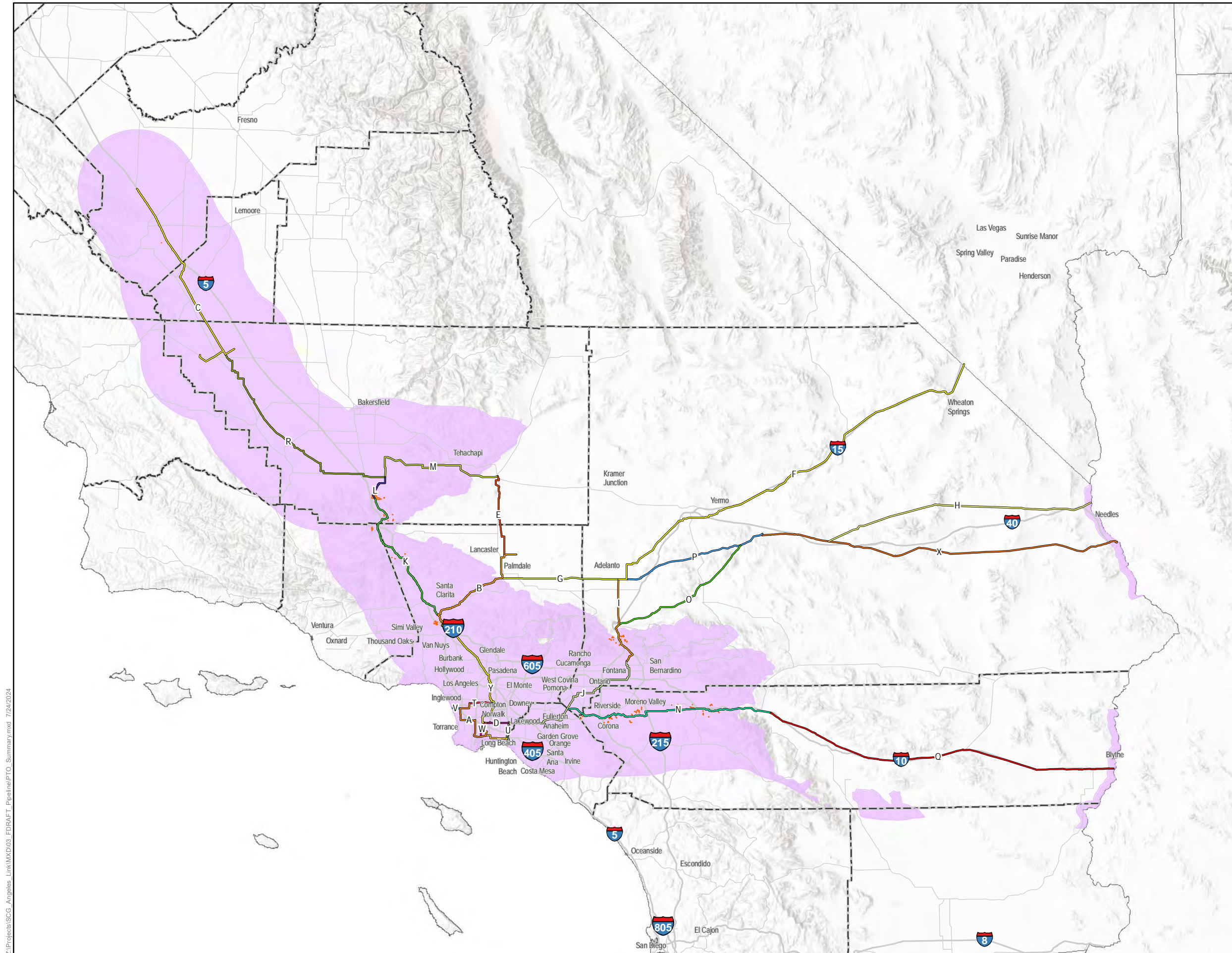
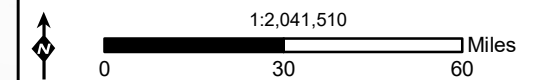


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Bald Eagle**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
|                | — State Highway          |
|                | - - - County Boundary    |
| — A            | ■ Likely to Occur        |
| — B            | ■ Unlikely to Occur      |
| — C            | <b>Data Sources</b>      |
| — D            | • CNDDDB                 |
| — E            | • CWHR Predicted Habitat |
| — F            | • CWHR Species Range     |
| — G            |                          |
| — H            |                          |
| — I            |                          |
| — J            |                          |
| — K            |                          |
| — L            |                          |
| — M            |                          |
| — N            |                          |
| — O            |                          |
| — P            |                          |
| — Q            |                          |
| — R            |                          |
| — S            |                          |
| — T            |                          |
| — U            |                          |
| — V            |                          |
| — W            |                          |
| — X            |                          |
| — Y            |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

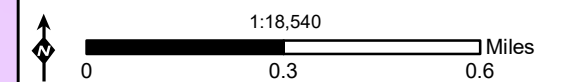
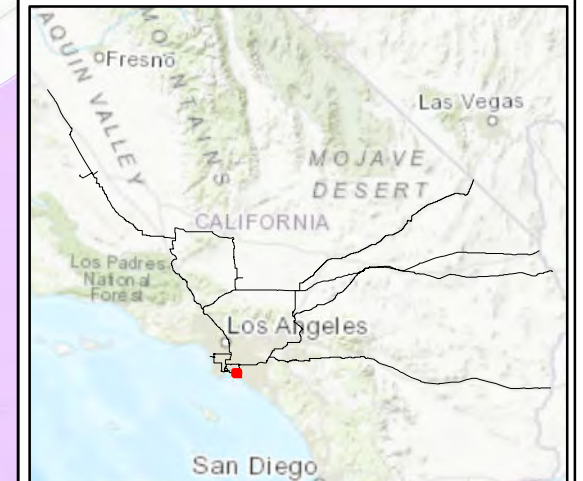


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Belding's Savannah Sparrow**

**Angeles Link Phase 1  
Environmental Analysis**

- |                     |                             |
|---------------------|-----------------------------|
| <b>Segment</b>      | — Interstate                |
| — S                 | — State Highway             |
| — U                 | - - - County Boundary       |
|                     | ● Likely to Occur           |
|                     | ● Unlikely to Occur         |
| <b>Data Sources</b> |                             |
|                     | • CNDDDB                    |
|                     | • NWI                       |
|                     | • NWI Range (1-Mile Buffer) |

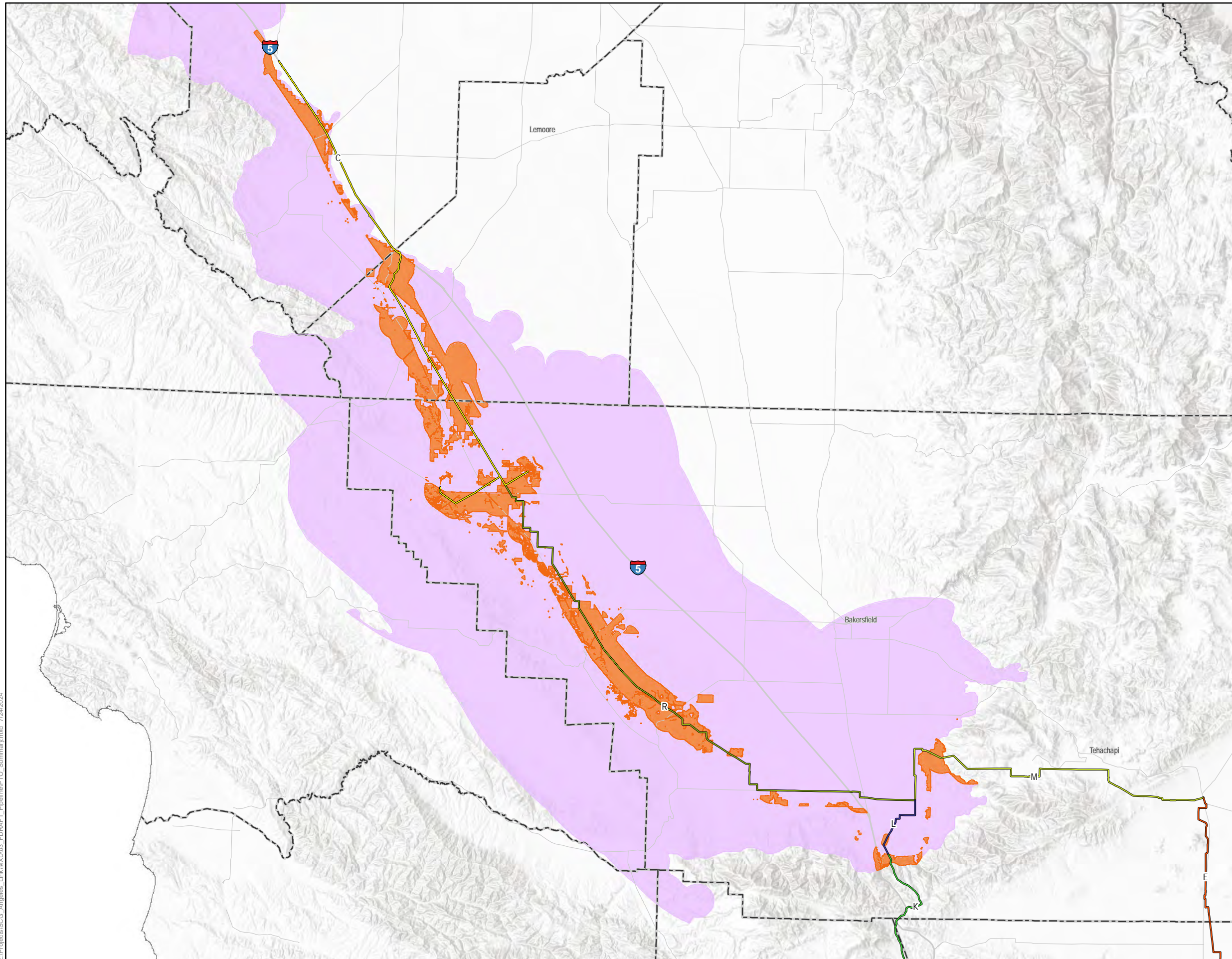
Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



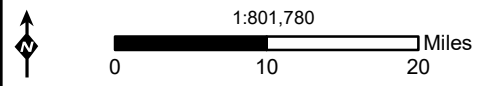
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Blunt-Nosed Leopard Lizard**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
| C              | — State Highway          |
| E              | - - - County Boundary    |
| K              | ■ Likely to Occur        |
| L              | ■ Unlikely to Occur      |
| M              | <b>Data Sources</b>      |
| R              | • CNDDDB                 |
|                | • CWHR Predicted Habitat |
|                | • CWHR Species Range     |



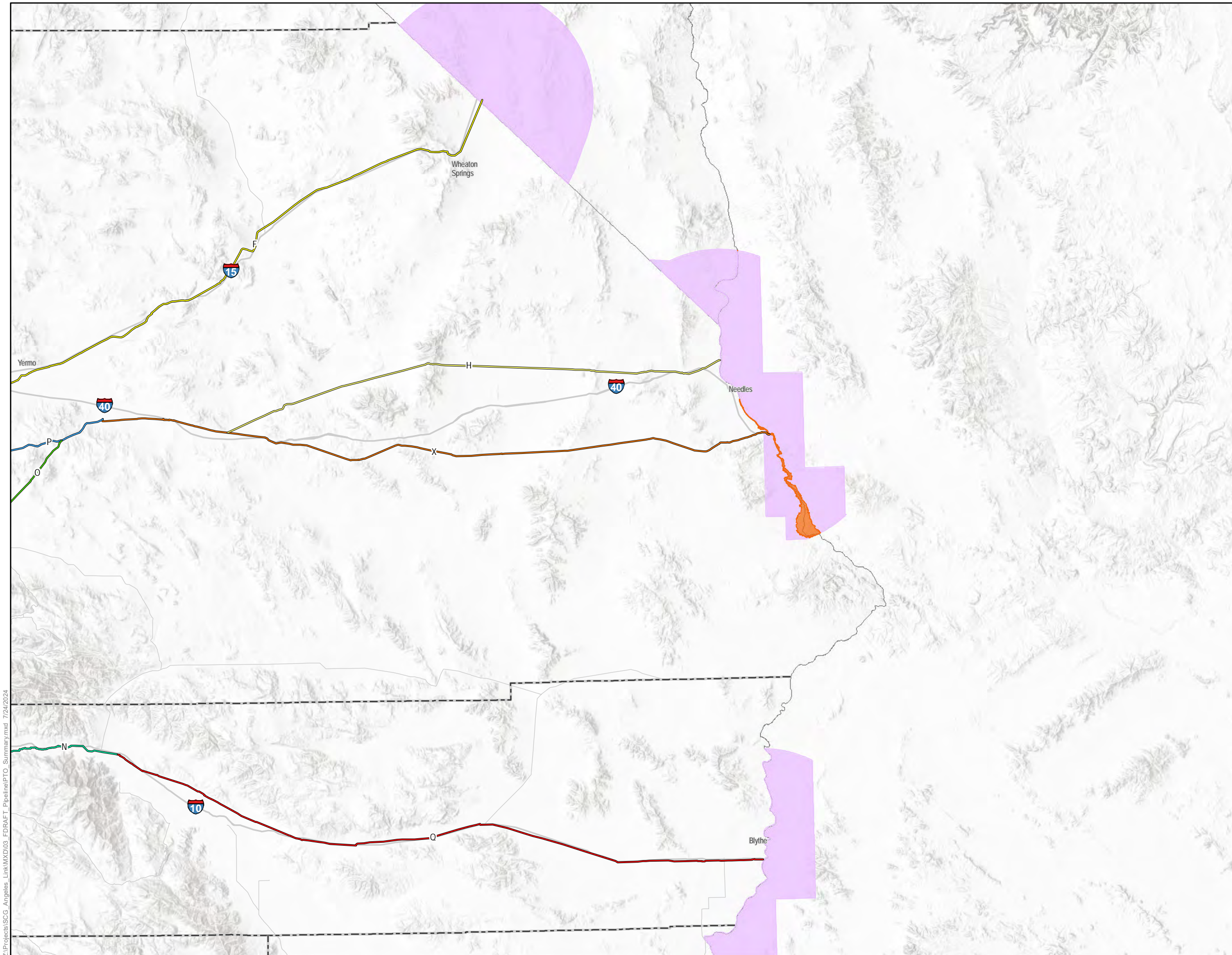
Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



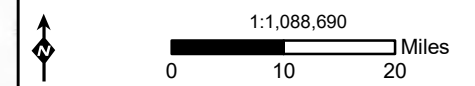
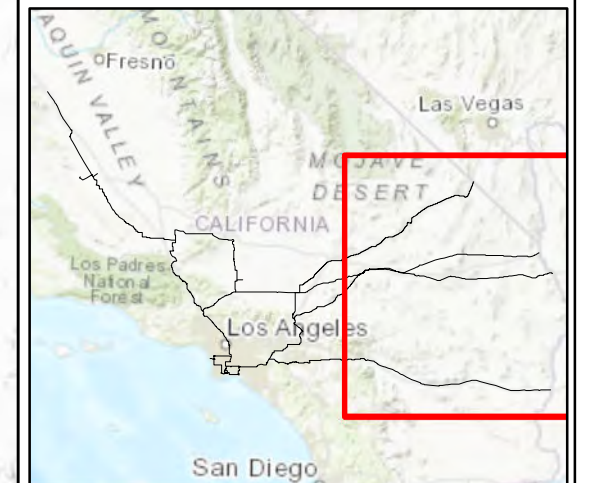
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Bonytail**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
| F              | — State Highway          |
| H              | - - - County Boundary    |
| N              | ■ Likely to Occur        |
| O              | ■ Unlikely to Occur      |
| P              | <b>Data Sources</b>      |
| Q              | • CNDDDB                 |
| X              | • USFWS Critical Habitat |
|                | • USFWS ECOS             |



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

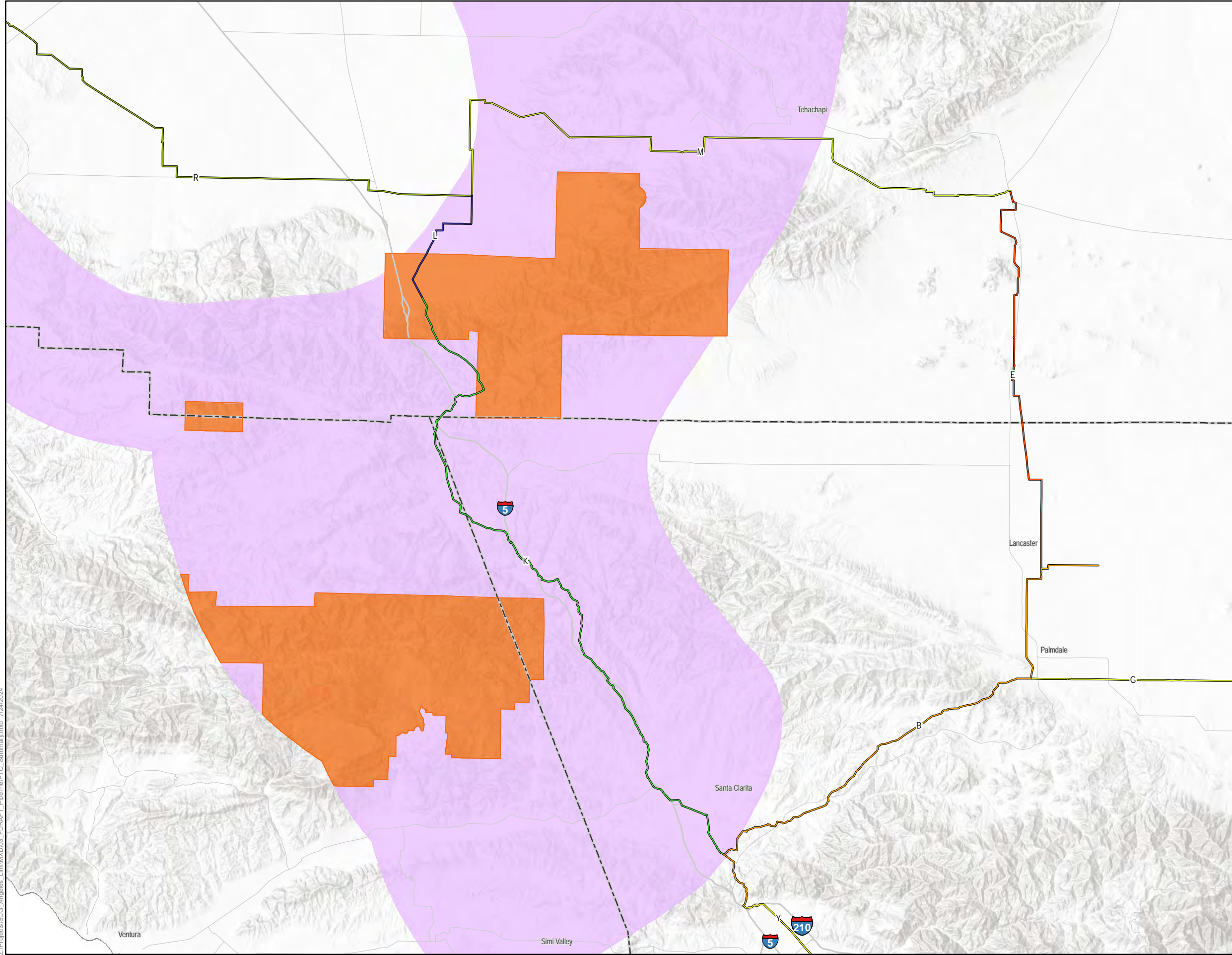
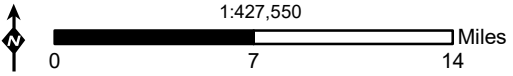


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
California Condor**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
| B              | — State Highway          |
| E              | - - - County Boundary    |
| G              | ■ Likely to Occur        |
| K              | ■ Unlikely to Occur      |
| L              | <b>Data Sources</b>      |
| M              | • CNDDDB                 |
| R              | • CWHR Species Range     |
| Y              | • USFWS Critical Habitat |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

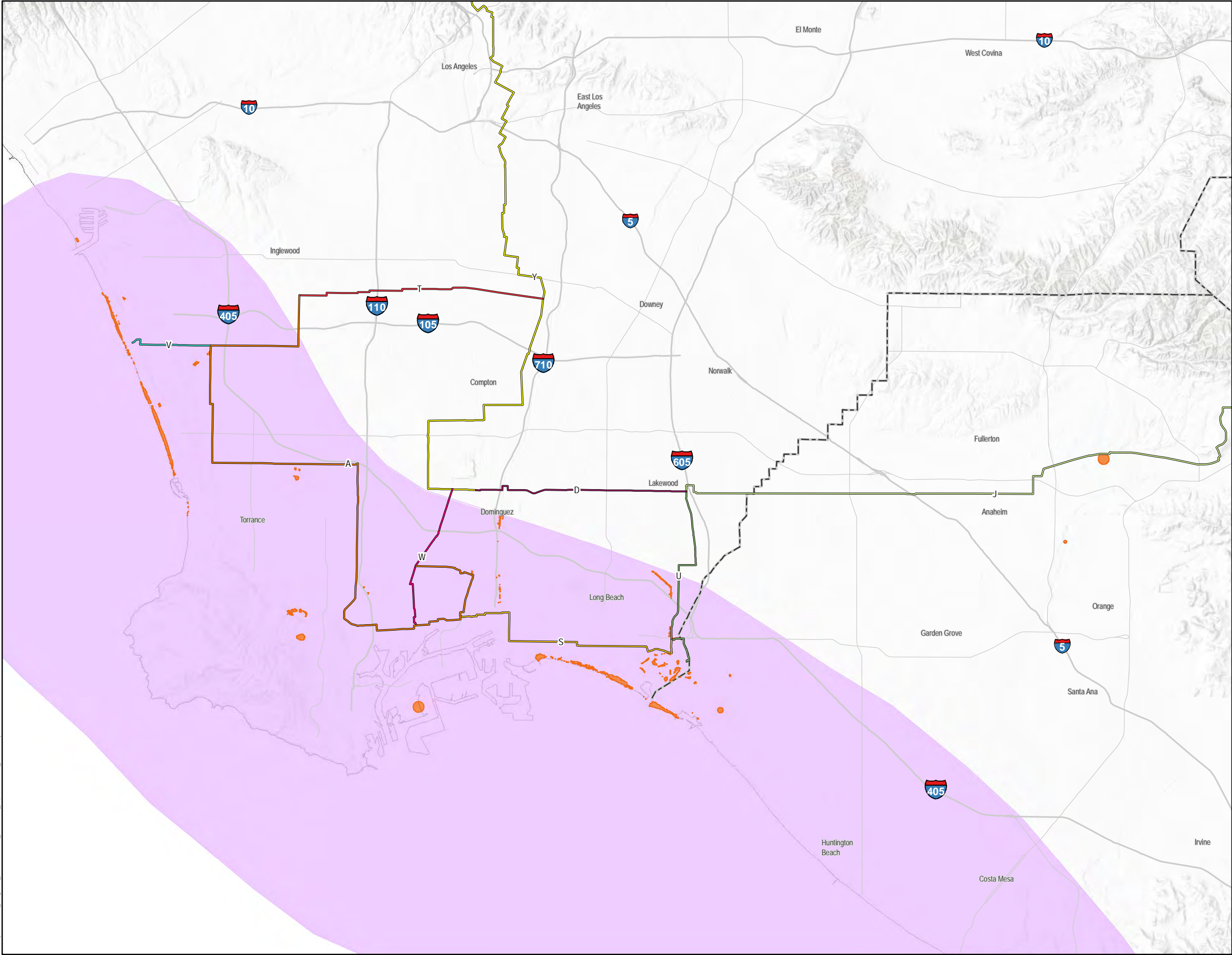


Z:\Projects\SCG\_Angeles\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

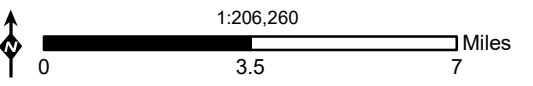
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
California Least Tern**

**Angeles Link Phase 1  
Environmental Analysis**

- |                          |                       |
|--------------------------|-----------------------|
| <b>Segment</b>           | — Interstate          |
|                          | — State Highway       |
|                          | - - - County Boundary |
|                          | ■ Likely to Occur     |
|                          | ■ Unlikely to Occur   |
|                          | <b>Data Sources</b>   |
| • CNDDDB                 |                       |
| • CWHR Predicted Habitat |                       |
| • CWHR Species Range     |                       |



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

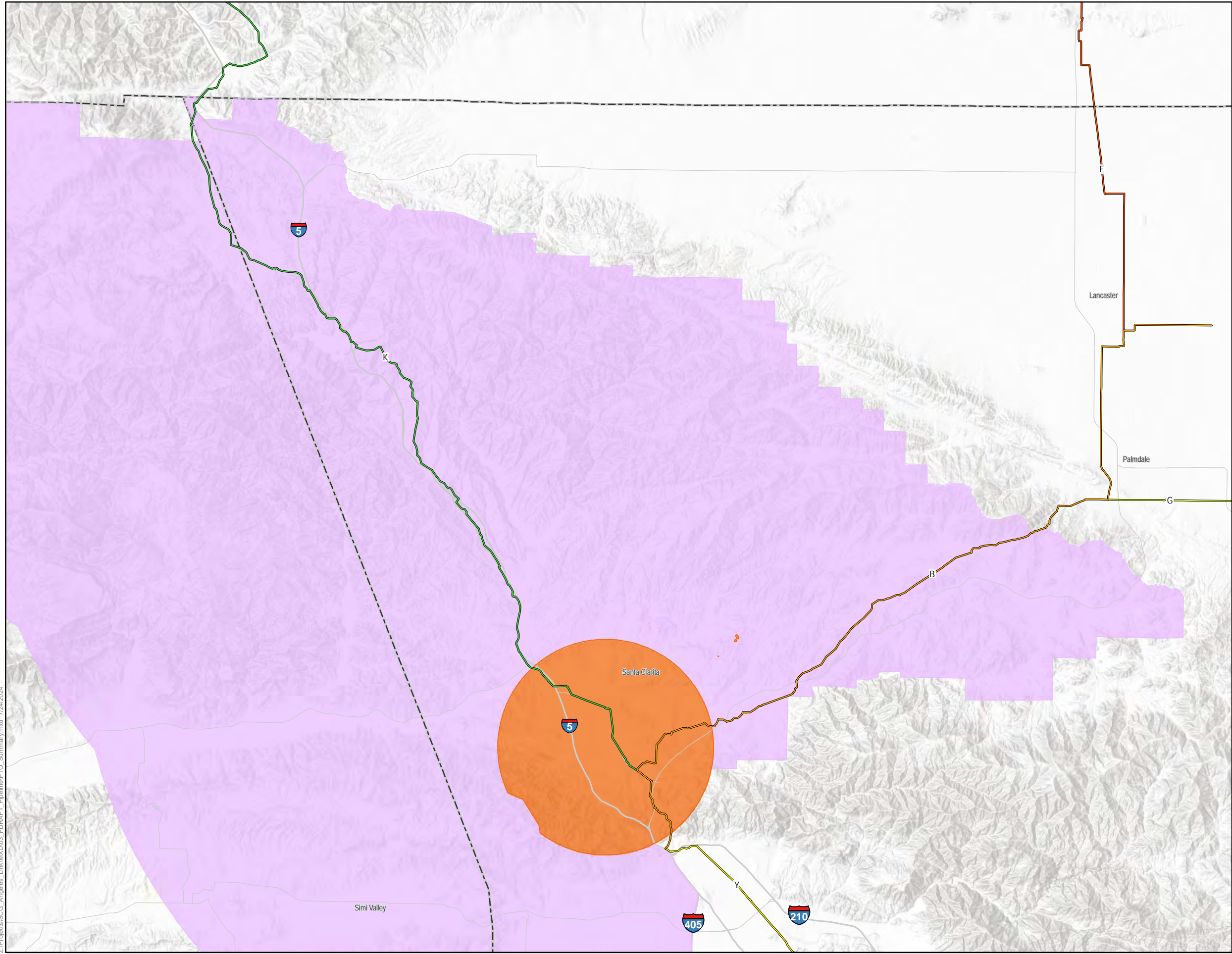
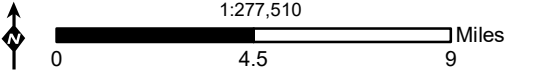


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
California Orcutt Grass**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
| — B            | — State Highway       |
| — E            | - - - County Boundary |
| — G            | ■ Likely to Occur     |
| — K            | ■ Unlikely to Occur   |
| — Y            | <b>Data Sources</b>   |
|                | • CNDDDB              |
|                | • USFWS ECOS          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



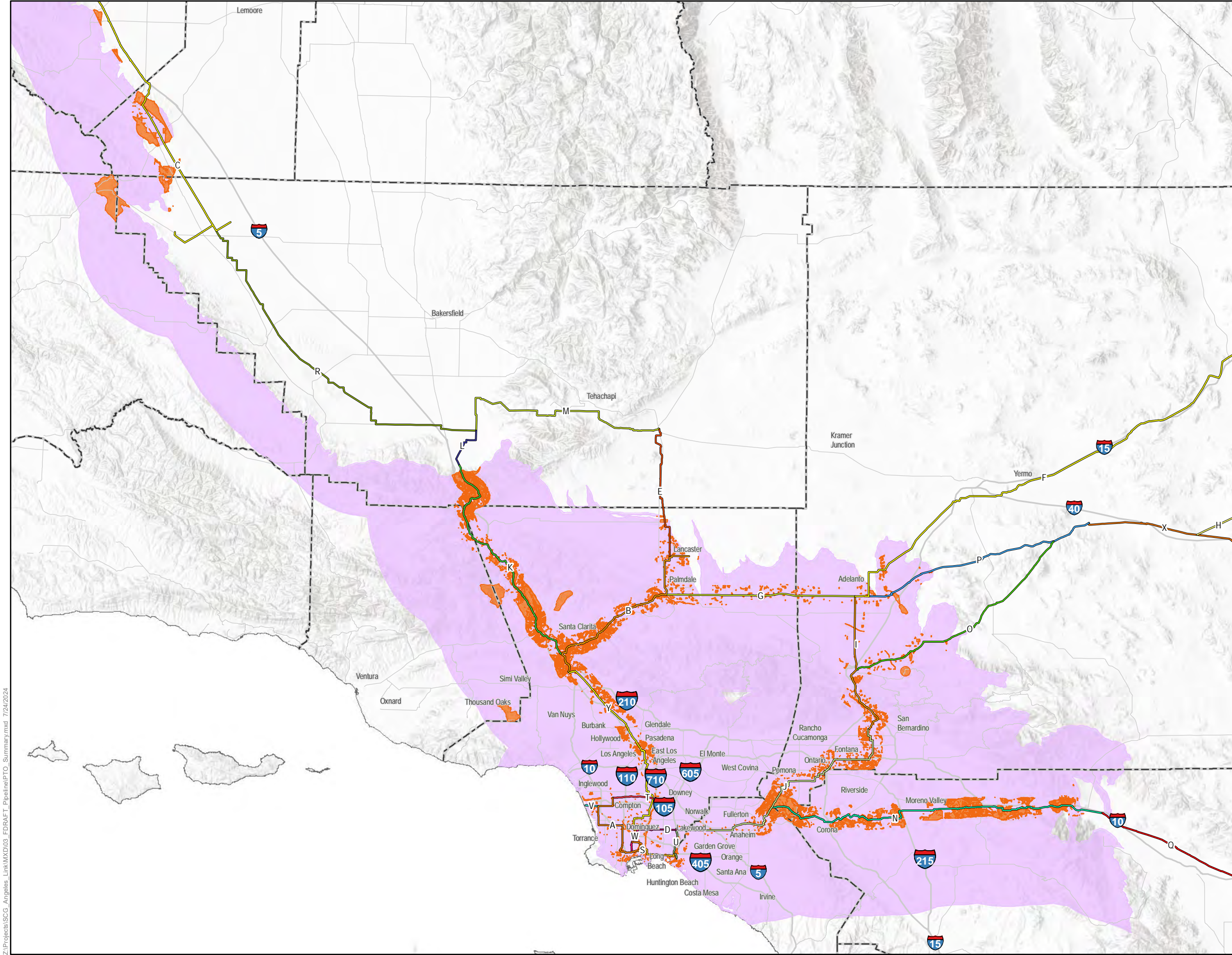
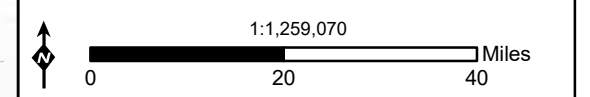
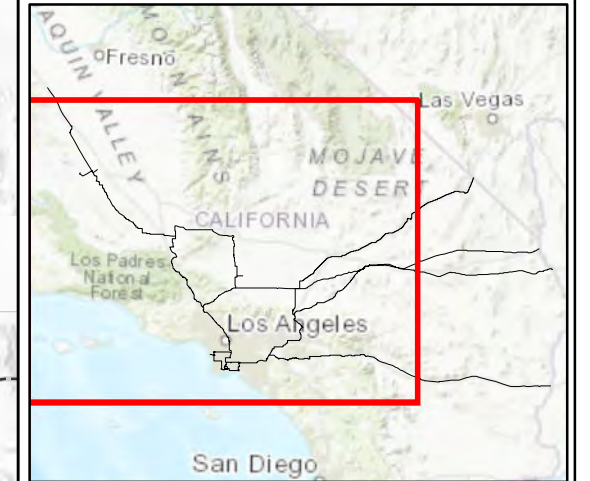
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
California Red-Legged Frog**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
|                | — State Highway          |
|                | - - - County Boundary    |
|                | ■ Likely to Occur        |
|                | ■ Unlikely to Occur      |
|                | <b>Data Sources</b>      |
| ● F            | • CNDDDB                 |
| ● G            | • CWHR Predicted Habitat |
| ● H            | • CWHR Species Range     |
| ● I            | • USFWS Critical Habitat |
| — J            |                          |
| — K            |                          |
| — L            |                          |
| — M            |                          |
| — N            |                          |
| — O            |                          |
| — P            |                          |
| — Q            |                          |
| — R            |                          |
| — S            |                          |
| — T            |                          |
| — U            |                          |
| — V            |                          |
| — W            |                          |
| — X            |                          |
| — Y            |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.










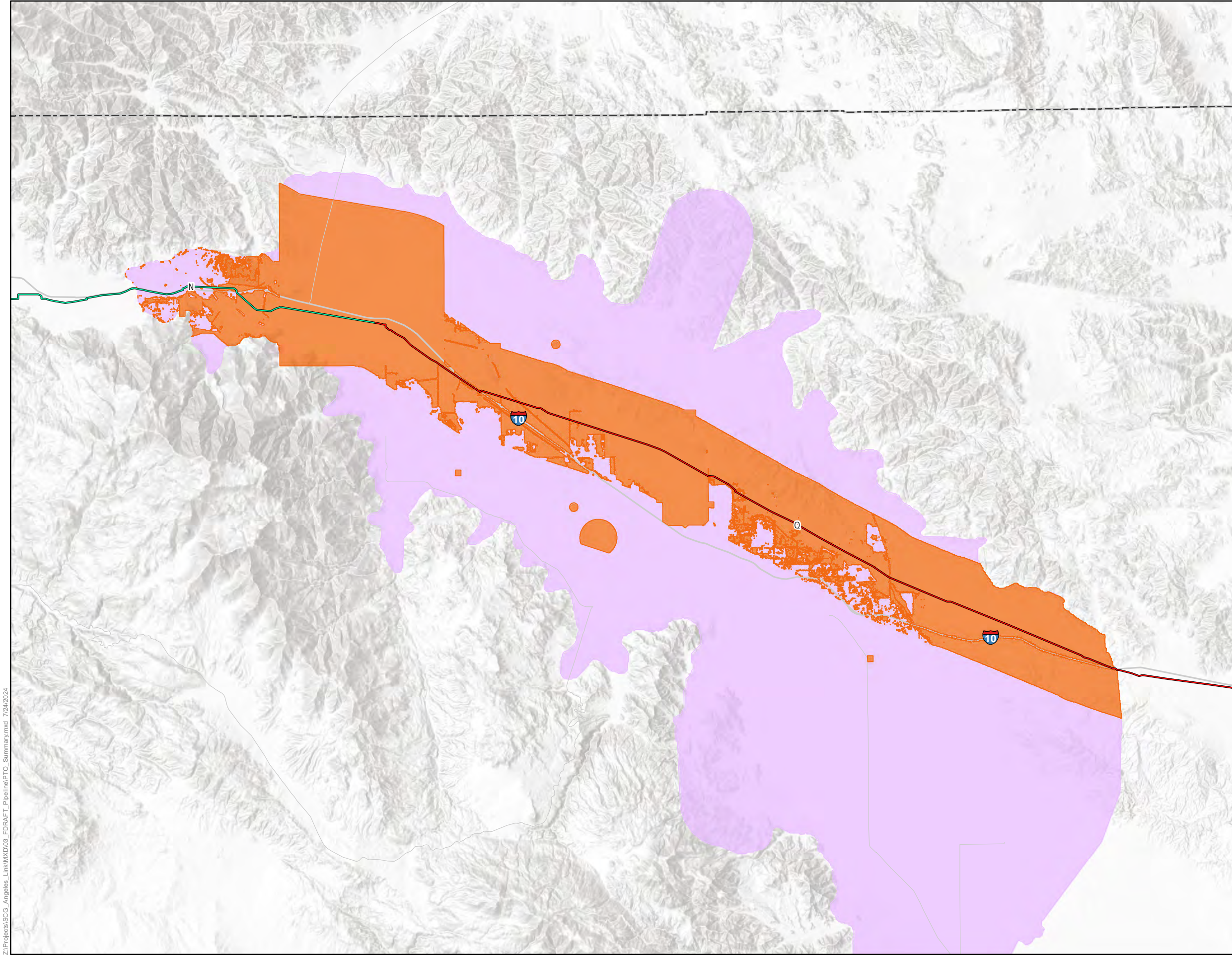
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024



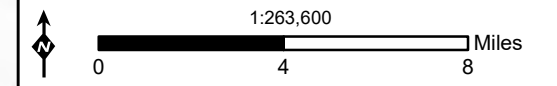
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Coachella Valley Fringe-Toed Lizard**

**Angeles Link Phase 1  
Environmental Analysis**

- Segment**
-  N
  -  Q
- Legend**
-  Interstate
  -  State Highway
  -  County Boundary
  -  Likely to Occur
  -  Unlikely to Occur
- Data Sources**
- CNDDDB
  - CWHR Predicted Habitat
  - CWHR Species Range
  - USFWS Critical Habitat





Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.








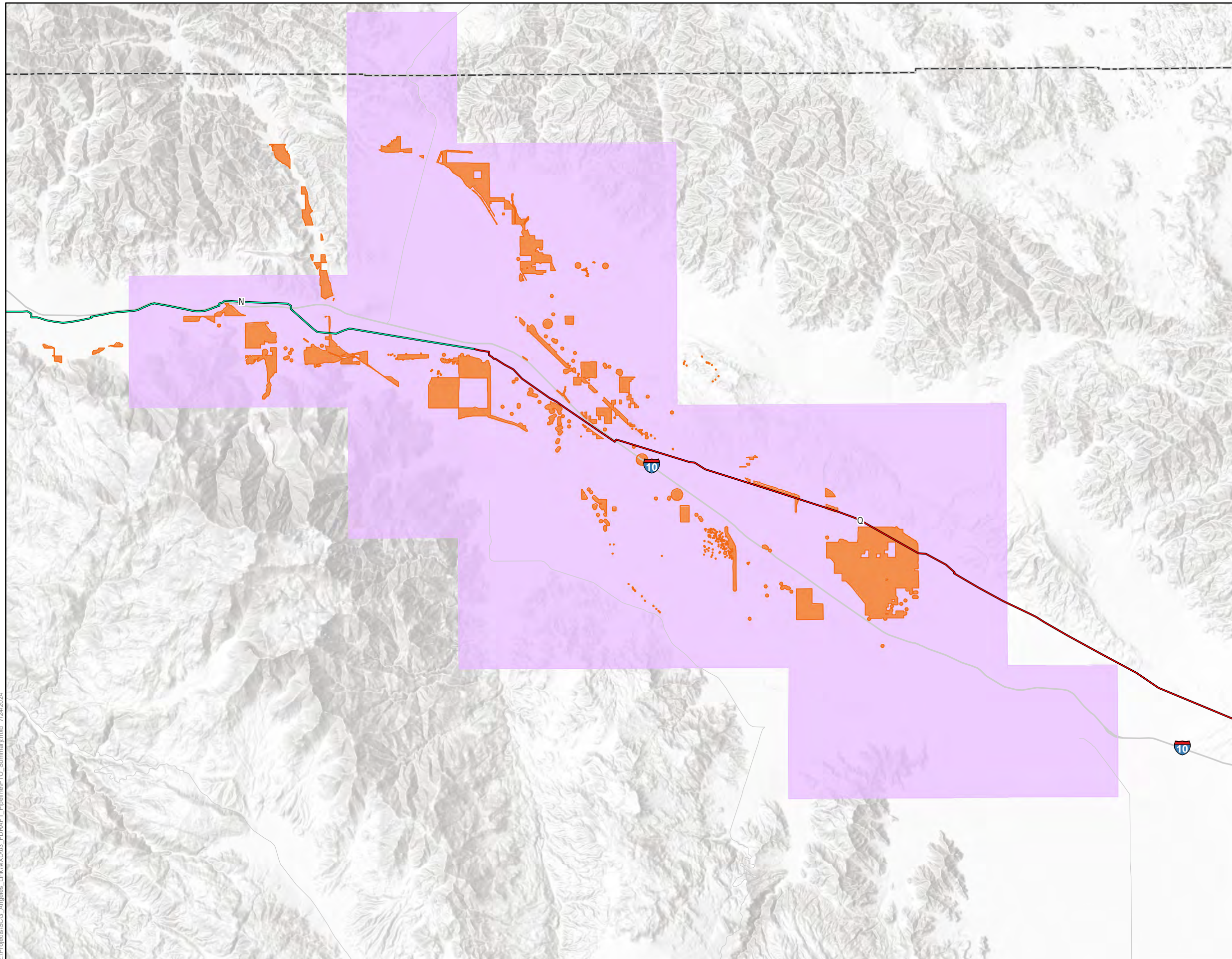
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Coachella Valley Milk-Vetch**

**Angeles Link Phase 1  
Environmental Analysis**

- Segment**
-  N
  -  Q
- Data Sources**
- CNDDDB
  - USFWS Critical Habitat
  - USFWS ECOS

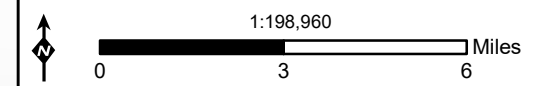
-  Interstate
-  State Highway
-  County Boundary
-  Likely to Occur
-  Unlikely to Occur



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



Z:\Projects\SCG\_Angeles\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

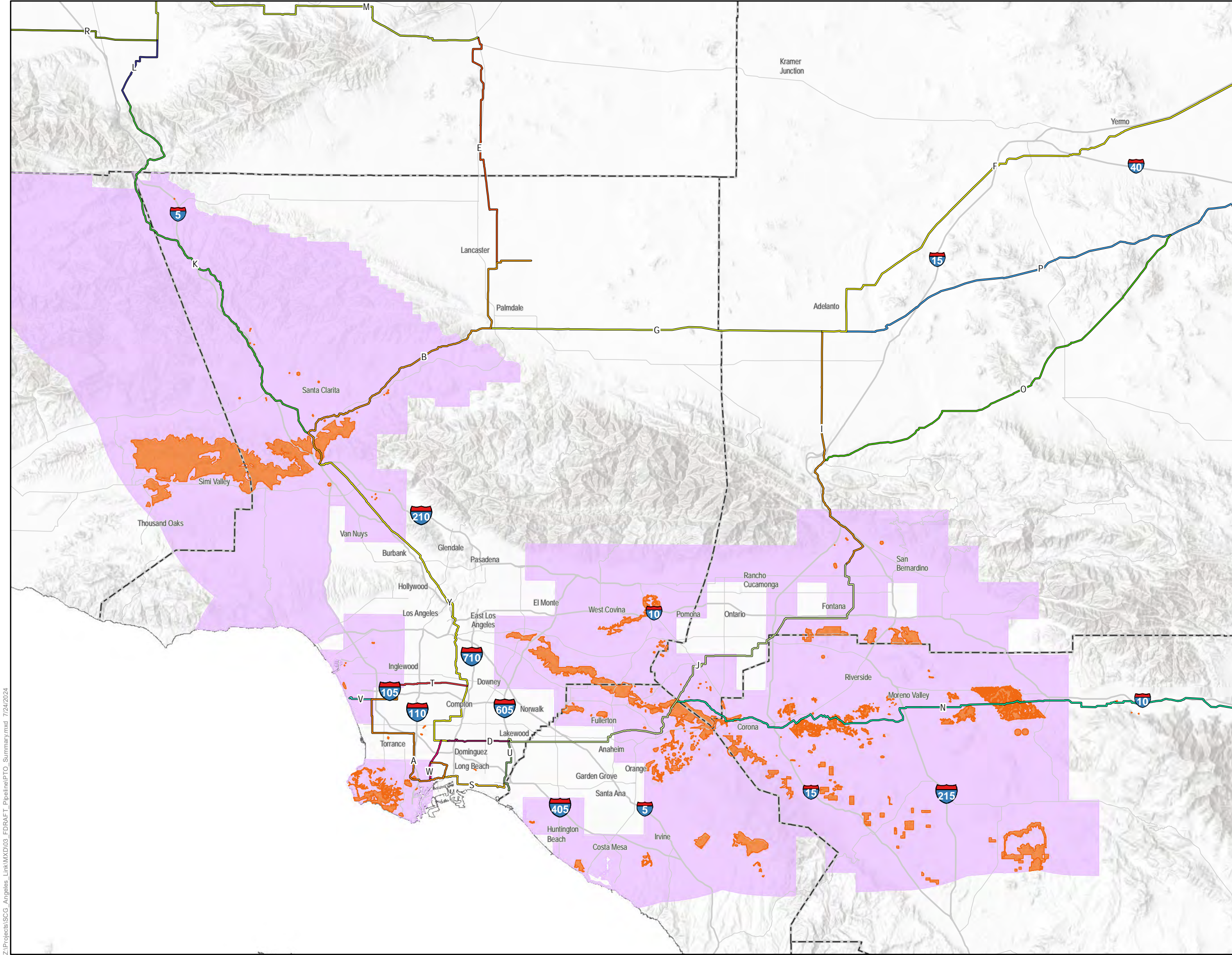
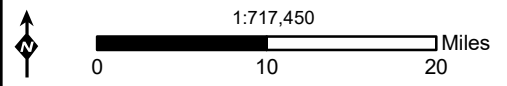


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Coastal California Gnatcatcher**

**Angeles Link Phase 1  
Environmental Analysis**

- |                     |                          |
|---------------------|--------------------------|
| <b>Segment</b>      | — Interstate             |
| A                   | — State Highway          |
| B                   | — County Boundary        |
| D                   | ■ Likely to Occur        |
| E                   | ■ Unlikely to Occur      |
| <b>Data Sources</b> |                          |
| G                   | • CNDDDB                 |
| I                   | • CWHR Predicted Habitat |
| J                   | • USFWS Critical Habitat |
| K                   | • USFWS ECOS             |
| L                   |                          |
| M                   |                          |
| N                   |                          |
| O                   |                          |
| P                   |                          |
| R                   |                          |
| S                   |                          |
| T                   |                          |
| U                   |                          |
| V                   |                          |
| W                   |                          |
| X                   |                          |
| Y                   |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



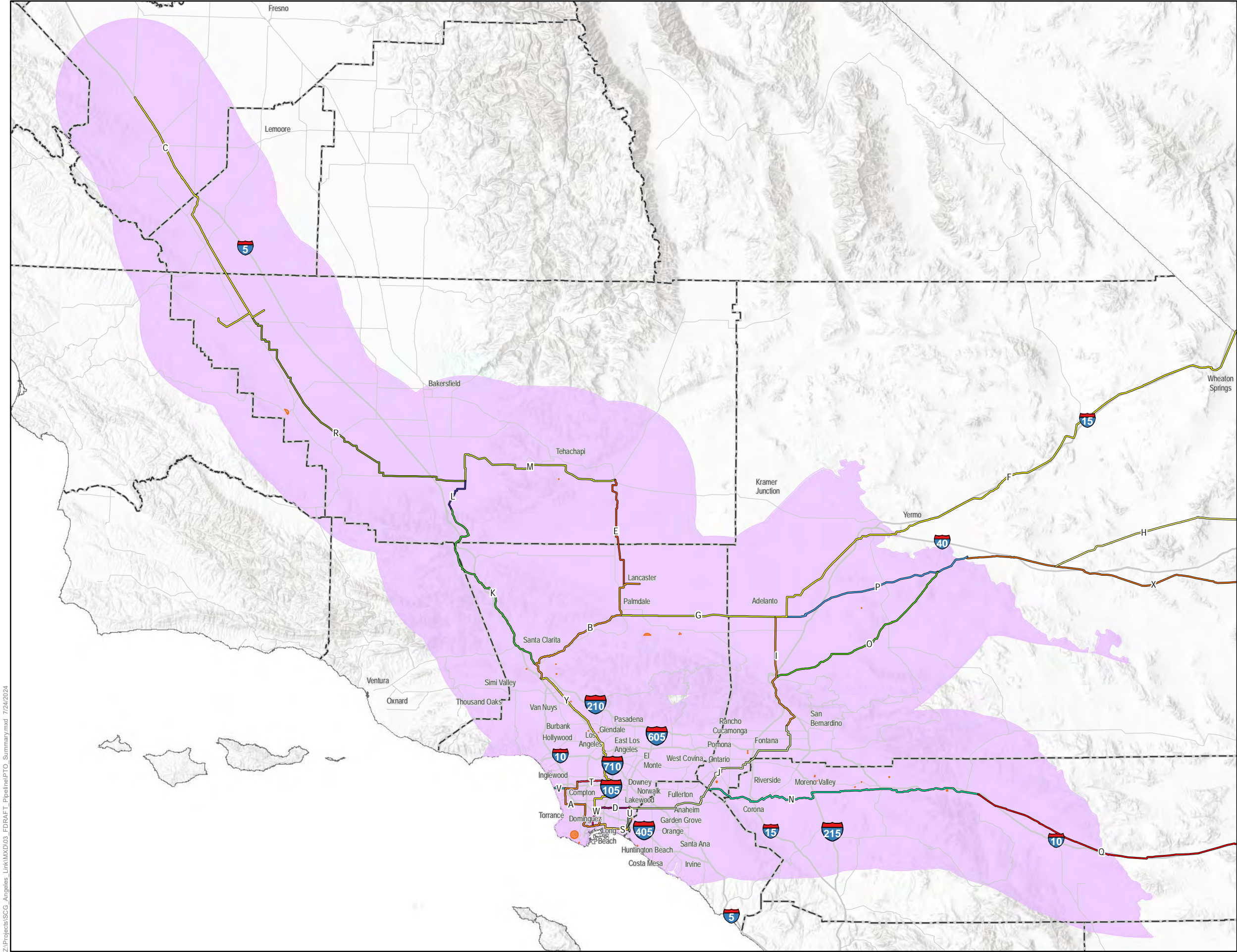
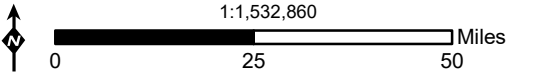
Z:\Projects\SCG\_Angelies\_Link\MXDI03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Crotch Bumble Bee**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
|                | — State Highway       |
|                | - - - County Boundary |
|                | ■ Likely to Occur     |
|                | ■ Unlikely to Occur   |
|                | <b>Data Sources</b>   |
|                | • CNDDDB              |
|                | • CWHR Species Range  |
| A              |                       |
| B              |                       |
| C              |                       |
| D              |                       |
| E              |                       |
| F              |                       |
| G              |                       |
| H              |                       |
| I              |                       |
| J              |                       |
| K              |                       |
| L              |                       |
| M              |                       |
| N              |                       |
| O              |                       |
| P              |                       |
| Q              |                       |
| R              |                       |
| S              |                       |
| T              |                       |
| U              |                       |
| V              |                       |
| W              |                       |
| X              |                       |
| Y              |                       |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



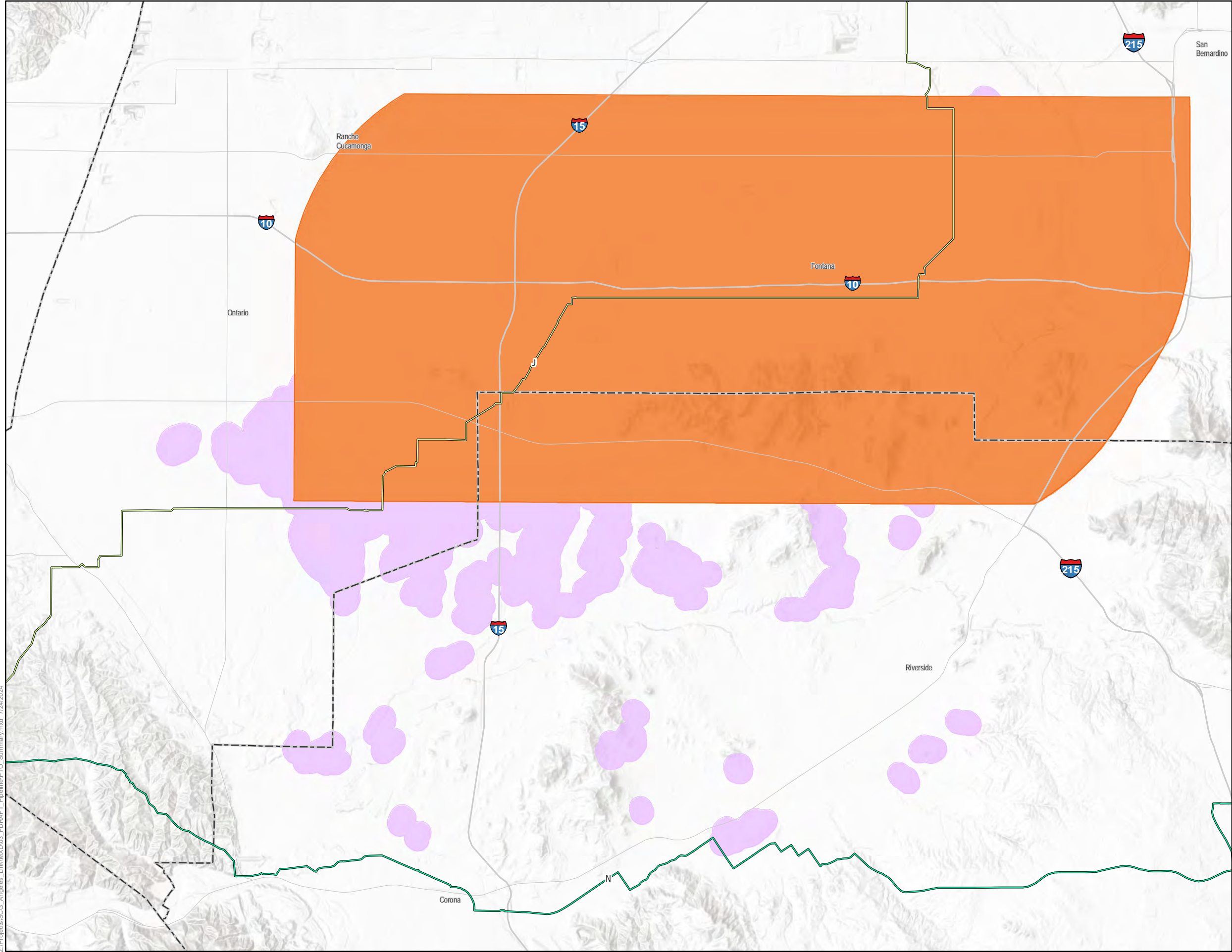
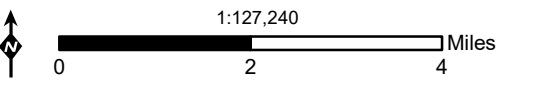
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Delhi Sands Flower-Loving Fly**

**Angeles Link Phase 1  
Environmental Analysis**

- Segment**
- Interstate
  - State Highway
  - County Boundary
- Likelihood to Occur**
- Orange: Likely to Occur
  - Purple: Unlikely to Occur
- Data Sources**
- CNDDDB
  - USFWS ECOS

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



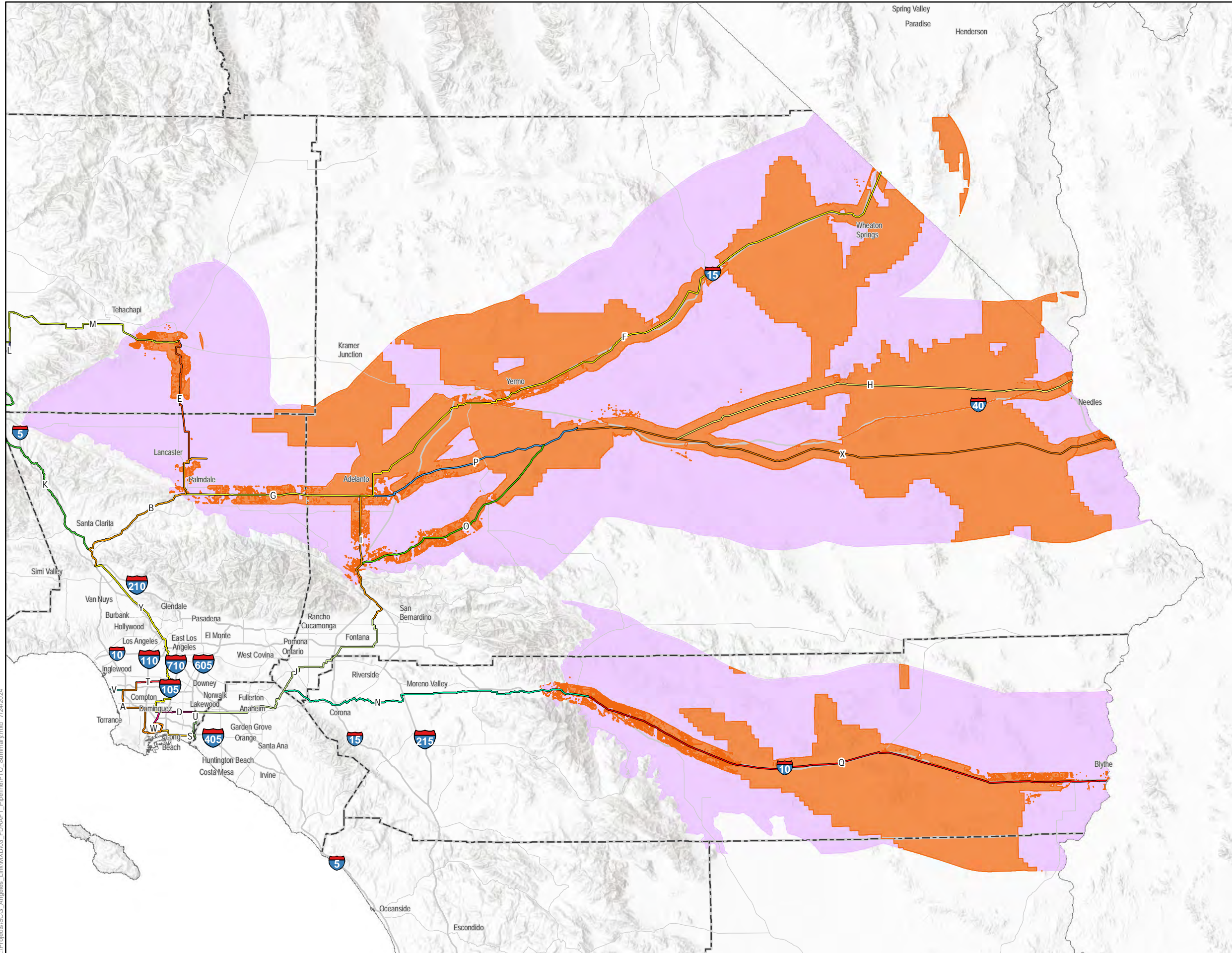
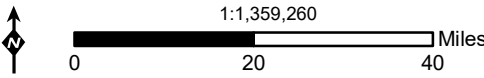
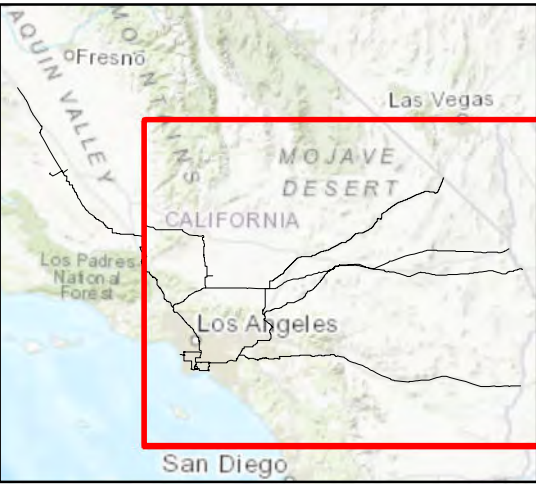
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Desert Tortoise**

**Angeles Link Phase 1  
Environmental Analysis**

- |                          |                       |
|--------------------------|-----------------------|
| <b>Segment</b>           | — Interstate          |
|                          | — State Highway       |
|                          | - - - County Boundary |
|                          | ■ Likely to Occur     |
|                          | ■ Unlikely to Occur   |
|                          | <b>Data Sources</b>   |
| • CNDDDB                 |                       |
| • CWHR Predicted Habitat |                       |
| • CWHR Species Range     |                       |
| • USFWS Critical Habitat |                       |
| A                        |                       |
| B                        |                       |
| D                        |                       |
| E                        |                       |
| F                        |                       |
| G                        |                       |
| H                        |                       |
| I                        |                       |
| J                        |                       |
| K                        |                       |
| L                        |                       |
| M                        |                       |
| N                        |                       |
| O                        |                       |
| P                        |                       |
| Q                        |                       |
| R                        |                       |
| S                        |                       |
| T                        |                       |
| U                        |                       |
| V                        |                       |
| W                        |                       |
| X                        |                       |
| Y                        |                       |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
El Segundo Blue Butterfly**

**Angeles Link Phase 1  
Environmental Analysis**

**Segment**

V

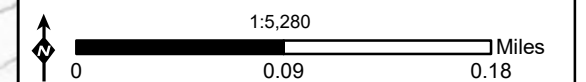
Likely to Occur

Unlikely to Occur

**Data Sources**

- CNDDDB
- USFWS ECOS

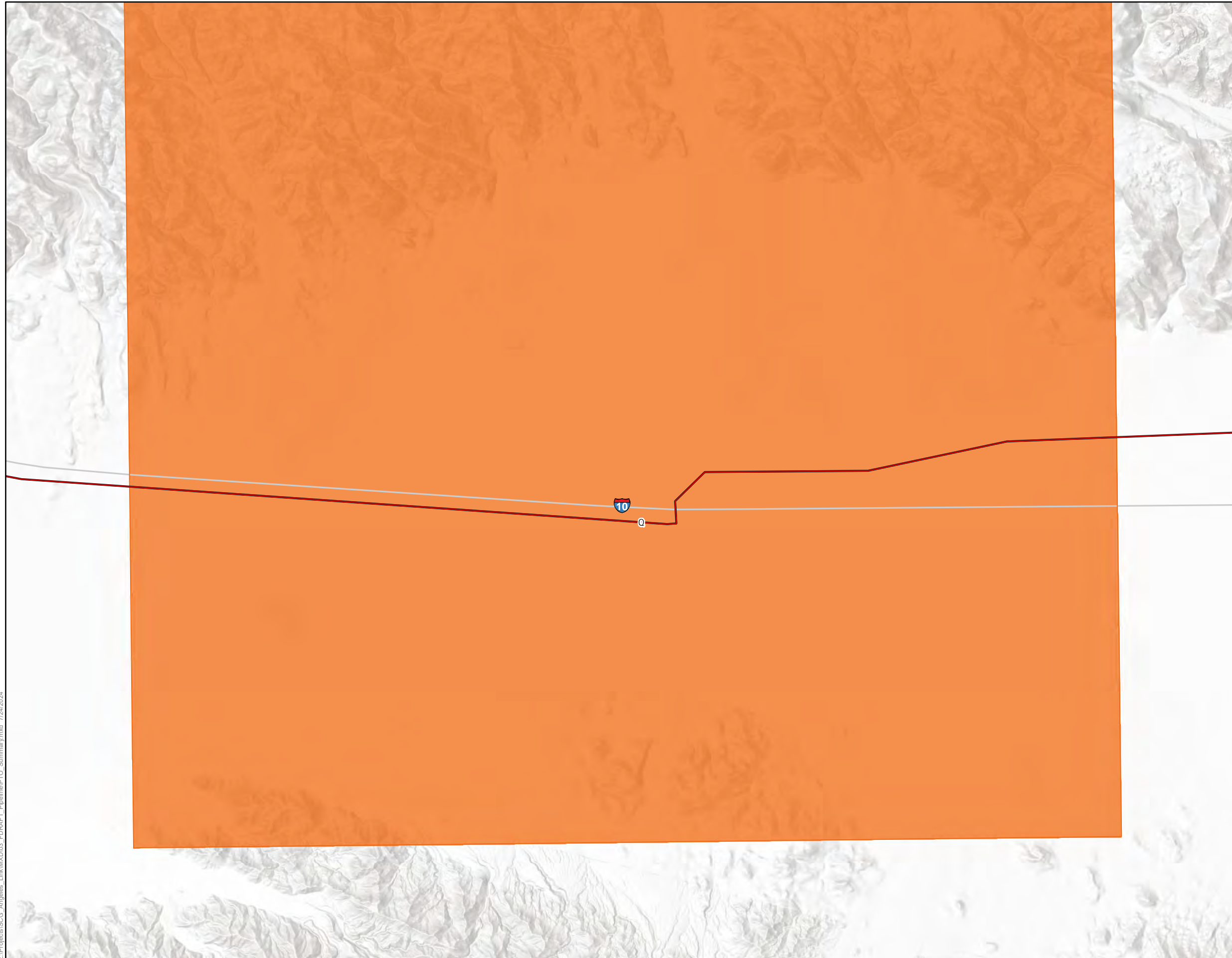
Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



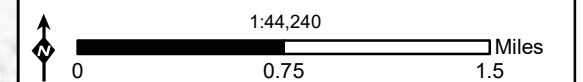
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Elf Owl**

**Angeles Link Phase 1  
Environmental Analysis**

- Segment**
- Interstate
  - Q
- Likely to Occur**
- Orange shaded area
- Data Sources**
- CNDDDB



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



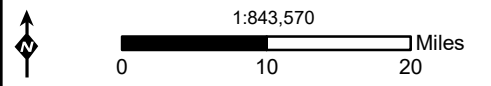


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Giant Kangaroo Rat**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
| — C            | — State Highway          |
| — E            | - - - County Boundary    |
| — K            | ■ Likely to Occur        |
| — L            | ■ Unlikely to Occur      |
| — M            | <b>Data Sources</b>      |
| — R            | • CNDDDB                 |
|                | • CWHR Predicted Habitat |
|                | • CWHR Species Range     |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

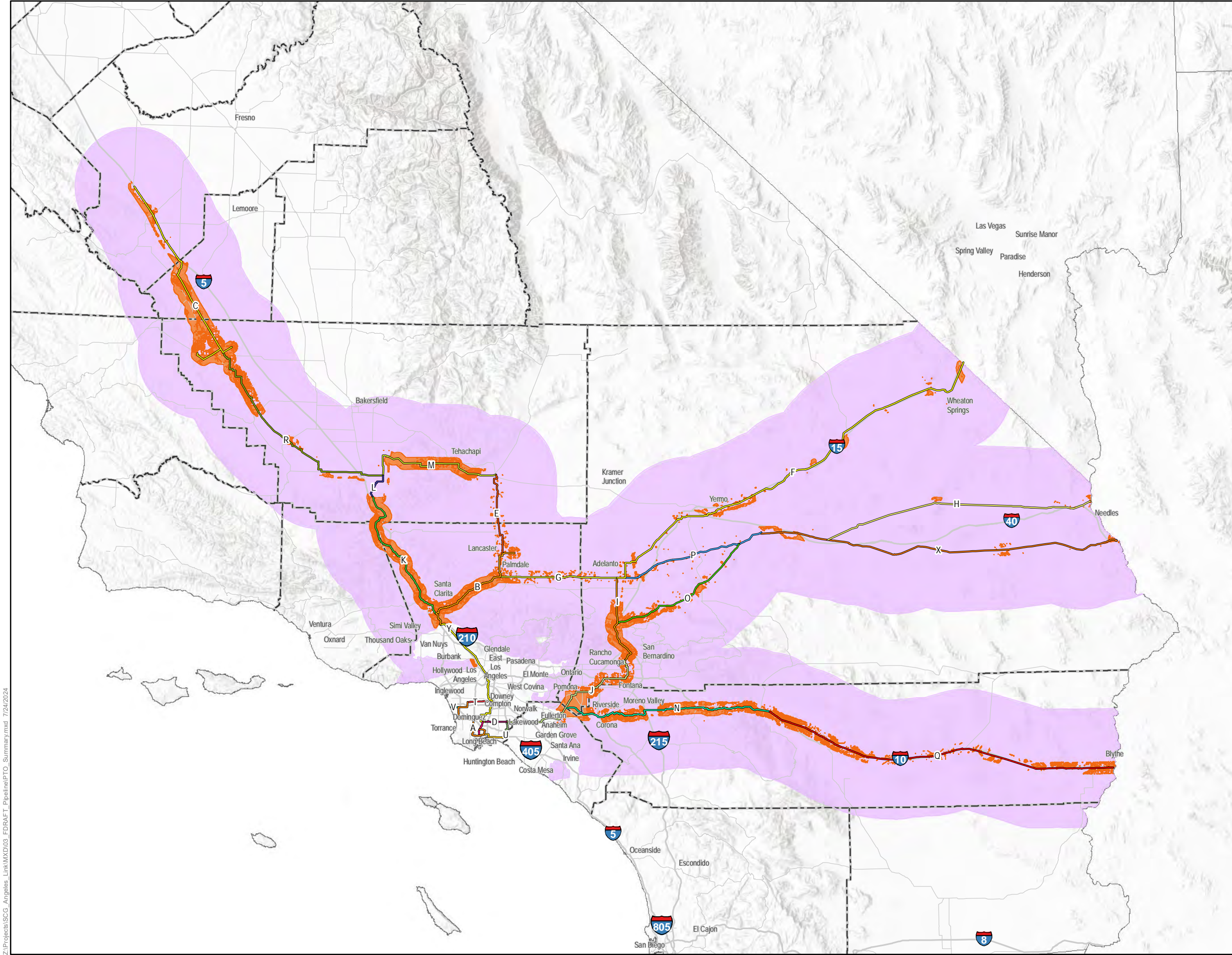
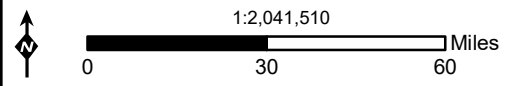


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Golden Eagle**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
|                | — State Highway          |
|                | - - - County Boundary    |
|                | ■ Likely to Occur        |
|                | ■ Unlikely to Occur      |
|                | <b>Data Sources</b>      |
| F              | • CNDDDB                 |
| G              | • CWHR Predicted Habitat |
| H              | • CWHR Species Range     |
| A              |                          |
| B              |                          |
| C              |                          |
| D              |                          |
| E              |                          |
| F              |                          |
| G              |                          |
| H              |                          |
| I              |                          |
| J              |                          |
| K              |                          |
| L              |                          |
| M              |                          |
| N              |                          |
| O              |                          |
| P              |                          |
| Q              |                          |
| R              |                          |
| S              |                          |
| T              |                          |
| U              |                          |
| V              |                          |
| W              |                          |
| X              |                          |
| Y              |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

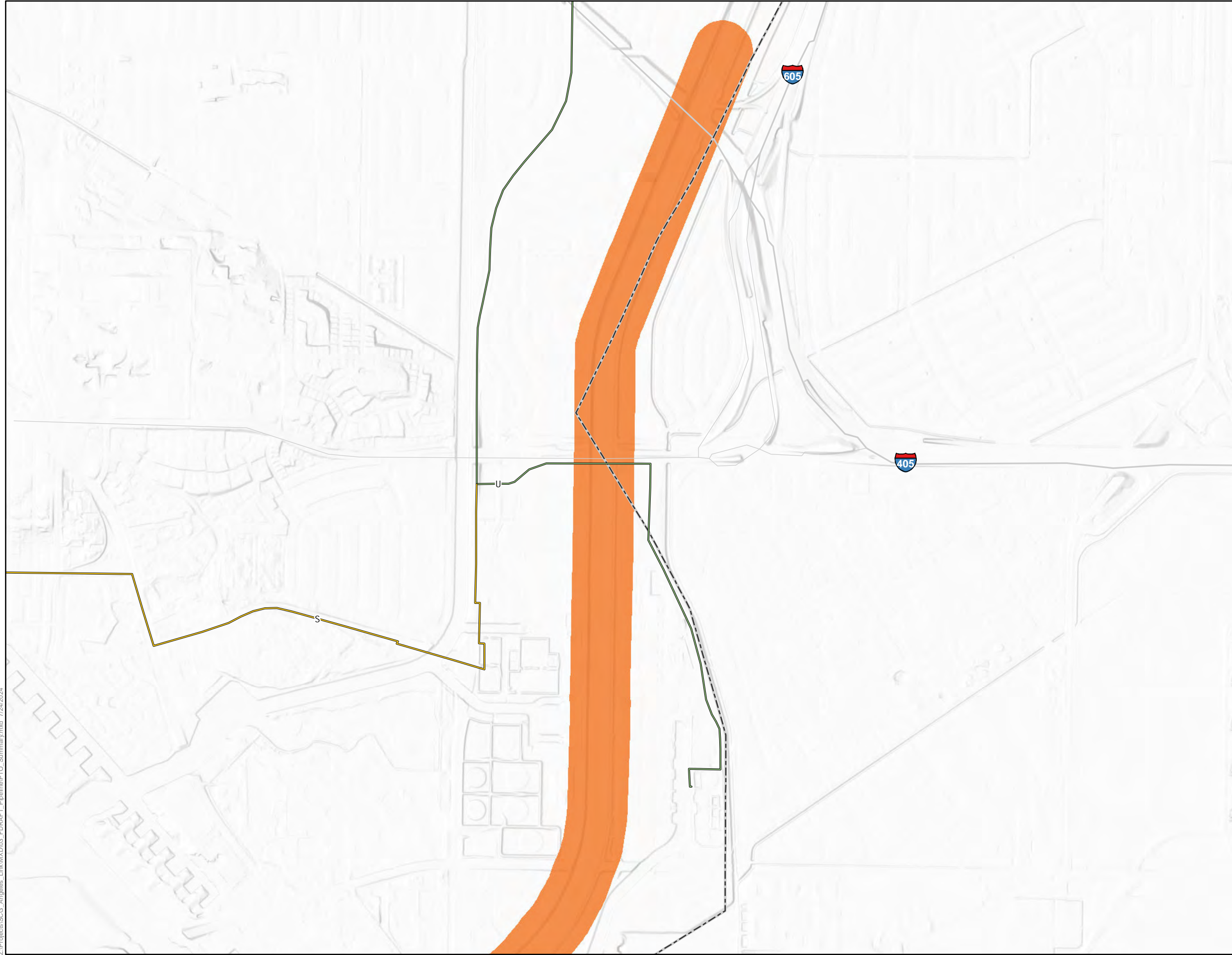


Z:\Projects\SCG\_Angelies\_Link\MXDI03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

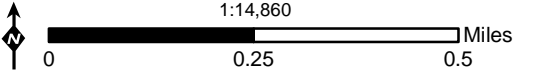
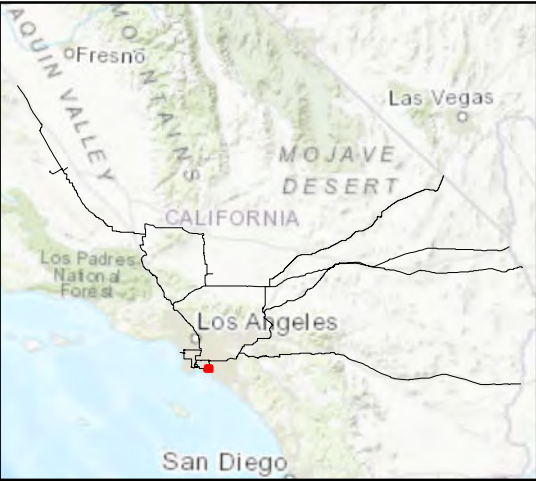
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Green Sea Turtle**

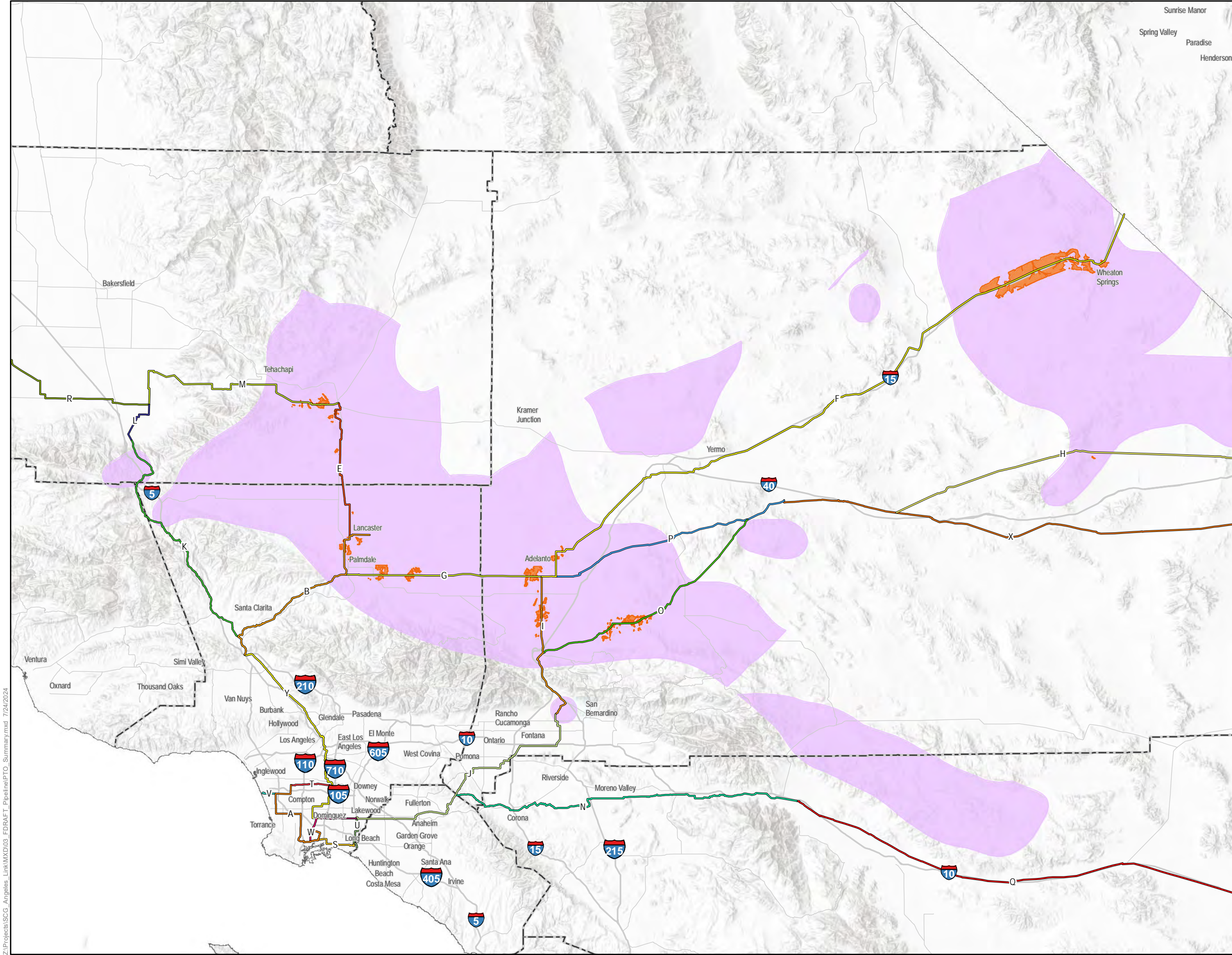
**Angeles Link Phase 1  
Environmental Analysis**

- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
| — S            | — State Highway       |
| — U            | - - - County Boundary |
|                | █ Likely to Occur     |



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



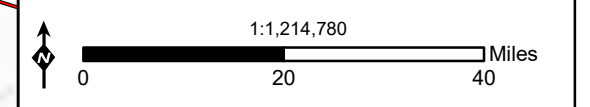
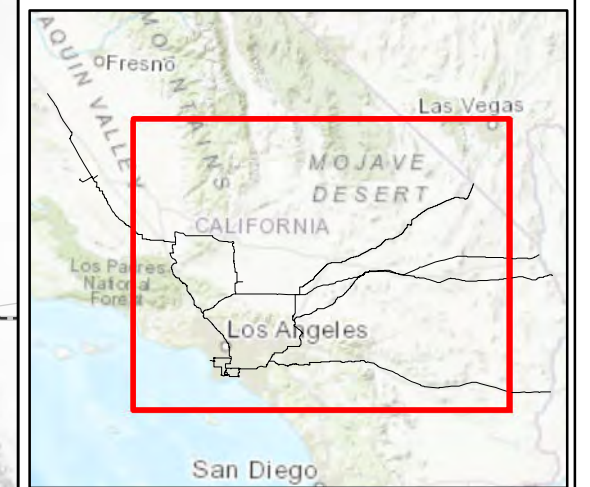


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Joshua Tree**

**Angeles Link Phase 1  
Environmental Analysis**

<b>Segment</b>	— Interstate
A	— State Highway
B	— County Boundary
D	— Likely to Occur
E	— Unlikely to Occur
F	<b>Data Sources</b>
G	• CDFW Species Range
H	• CDFW Vegetation Alliance
I	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	












Note: To optimize efficiency, CWHR Predicted Habitat and CNDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

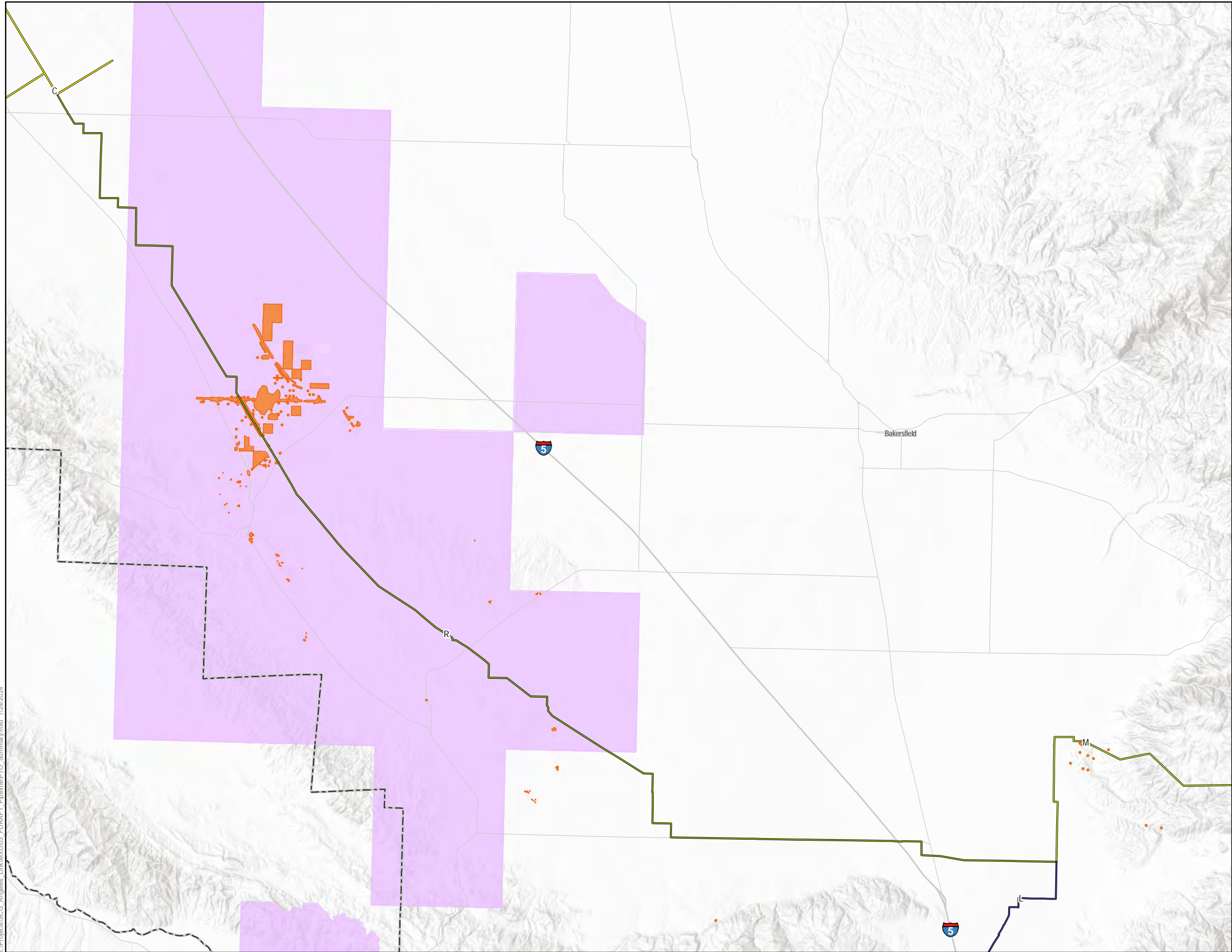


Z:\Projects\SCG\_Angeles\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

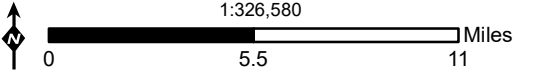
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Kern Mallow**

**Angeles Link Phase 1  
Environmental Analysis**

- Segment**
-  C
  -  L
  -  M
  -  R
- Data Sources**
-  Interstate
  -  State Highway
  -  County Boundary
  -  Likely to Occur
  -  Unlikely to Occur
  -  • CNDDDB
  -  • USFWS ECOS



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

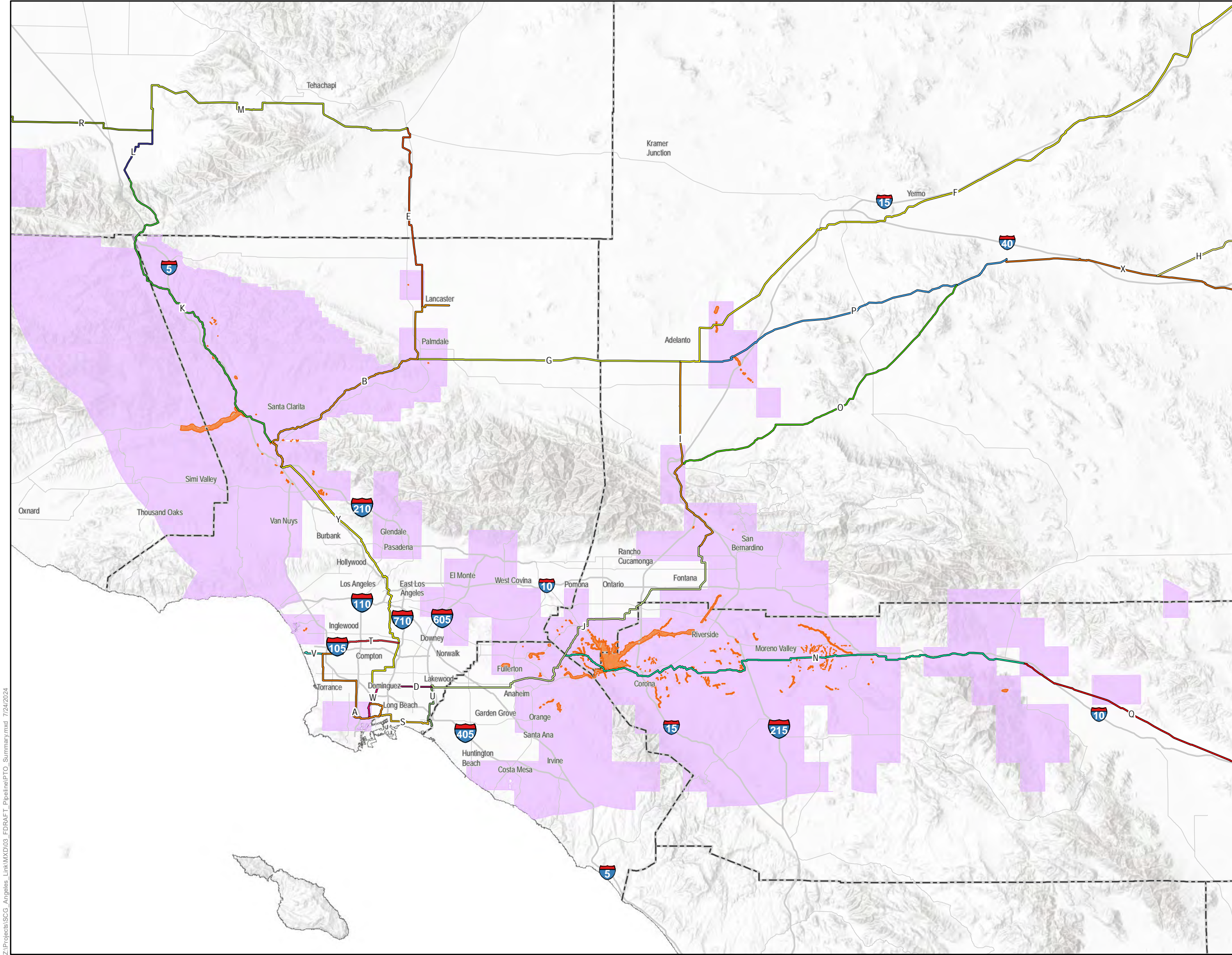
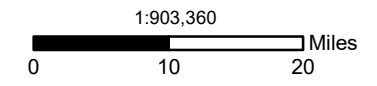


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Least Bell's Vireo**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
| A              | — State Highway          |
| B              | - - - County Boundary    |
| D              | ■ Likely to Occur        |
| E              | ■ Unlikely to Occur      |
| F              | <b>Data Sources</b>      |
| G              | • CNDDDB                 |
| H              | • CWHR Predicted Habitat |
| I              | • USFWS Critical Habitat |
| J              | • USFWS ECOS             |
| K              |                          |
| L              |                          |
| M              |                          |
| N              |                          |
| O              |                          |
| P              |                          |
| Q              |                          |
| R              |                          |
| S              |                          |
| T              |                          |
| U              |                          |
| V              |                          |
| W              |                          |
| X              |                          |
| Y              |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

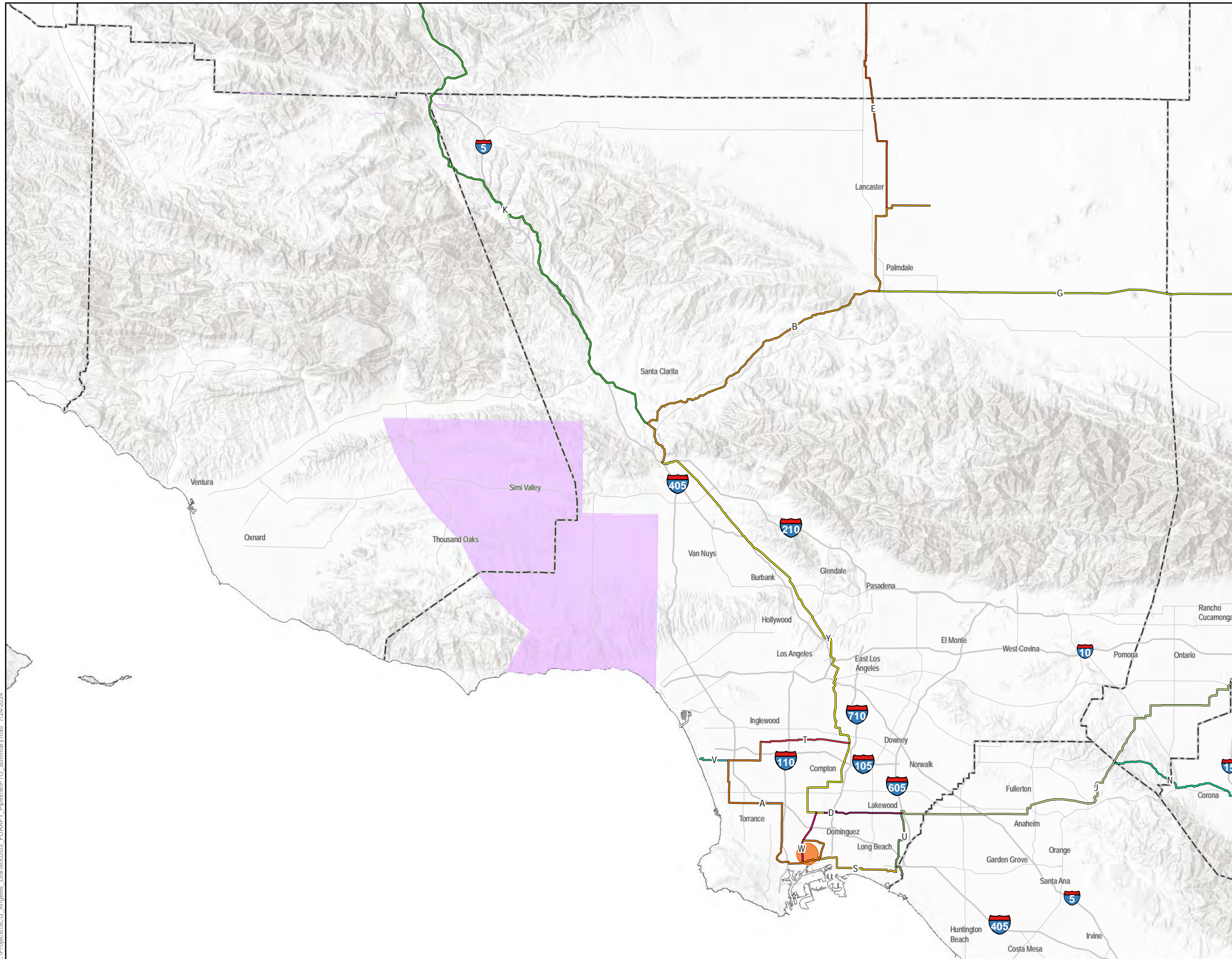


Z:\Projects\SCG\_Angeles\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

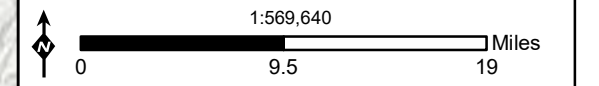
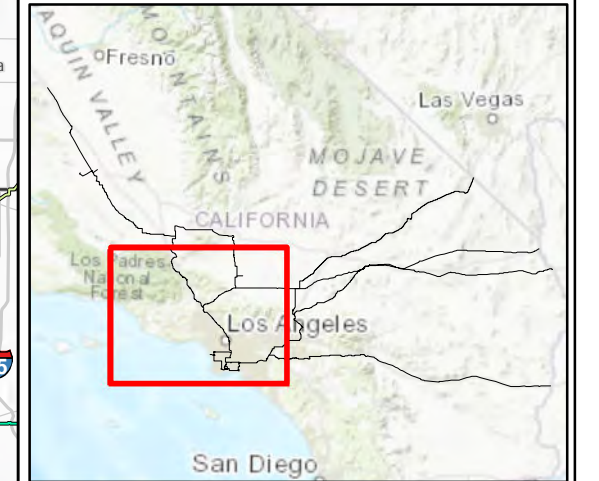
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Lyon's Pentachaeta**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
|                | — State Highway       |
|                | - - - County Boundary |
| <b>Legend</b>  | ■ Likely to Occur     |
|                | ■ Unlikely to Occur   |
|                | <b>Data Sources</b>   |
|                | • CNDDDB              |
|                | • USFWS ECOS          |
- Segment A
  - Segment B
  - Segment D
  - Segment E
  - Segment G
  - Segment J
  - Segment K
  - Segment L
  - Segment N
  - Segment S
  - Segment T
  - Segment U
  - Segment V
  - Segment W
  - Segment Y



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

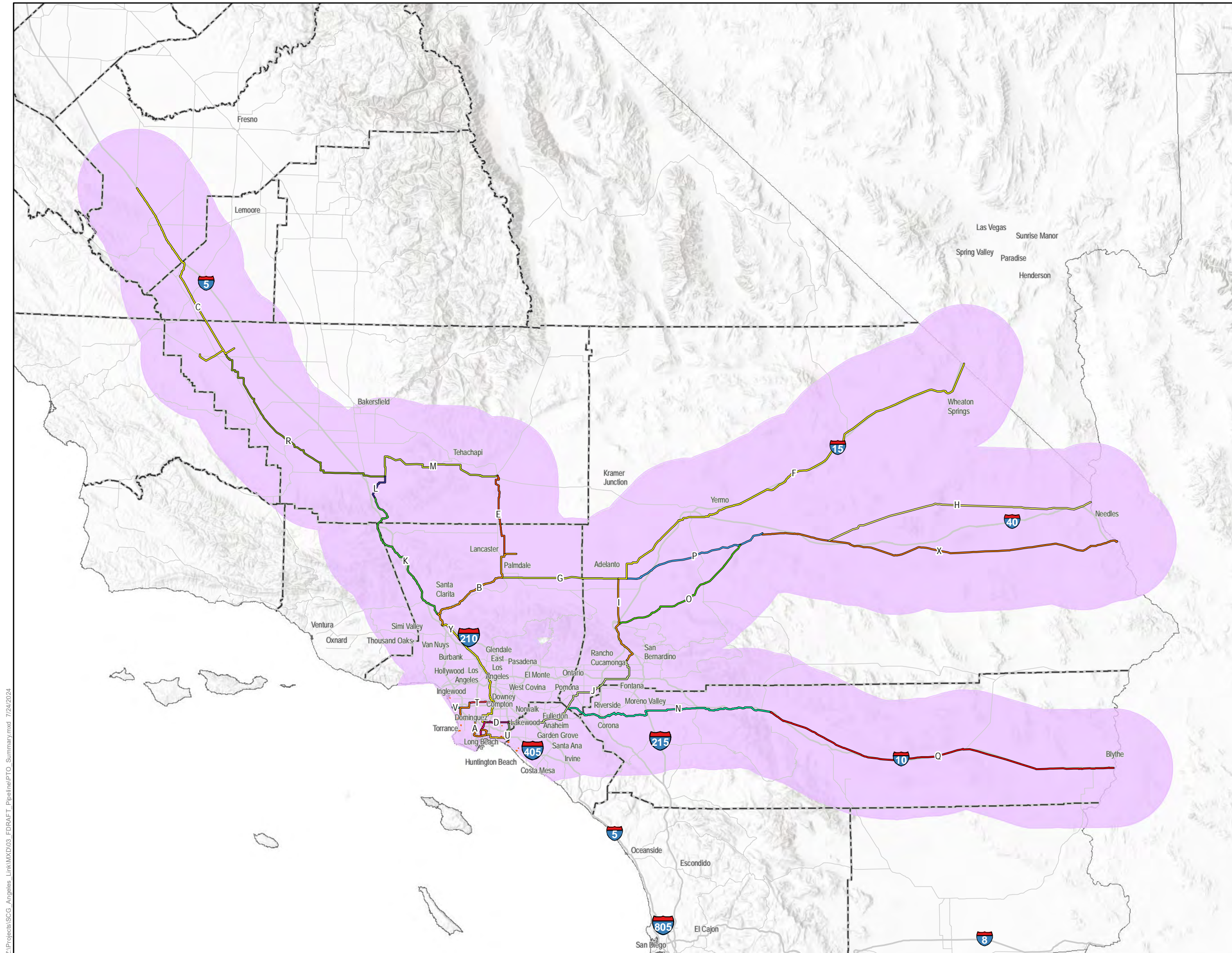
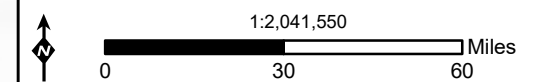


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Monarch - California Overwintering Population**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
|                | — State Highway       |
|                | - - - County Boundary |
|                | ■ Likely to Occur     |
|                | ■ Unlikely to Occur   |
|                | <b>Data Sources</b>   |
|                | • CNDDDB              |
|                | • USFWS ECOS          |
- A
  - B
  - C
  - D
  - E
  - F
  - G
  - H
  - I
  - J
  - K
  - L
  - M
  - N
  - O
  - P
  - Q
  - R
  - S
  - T
  - U
  - V
  - W
  - X
  - Y

Note: To optimize efficiency, CWHM Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

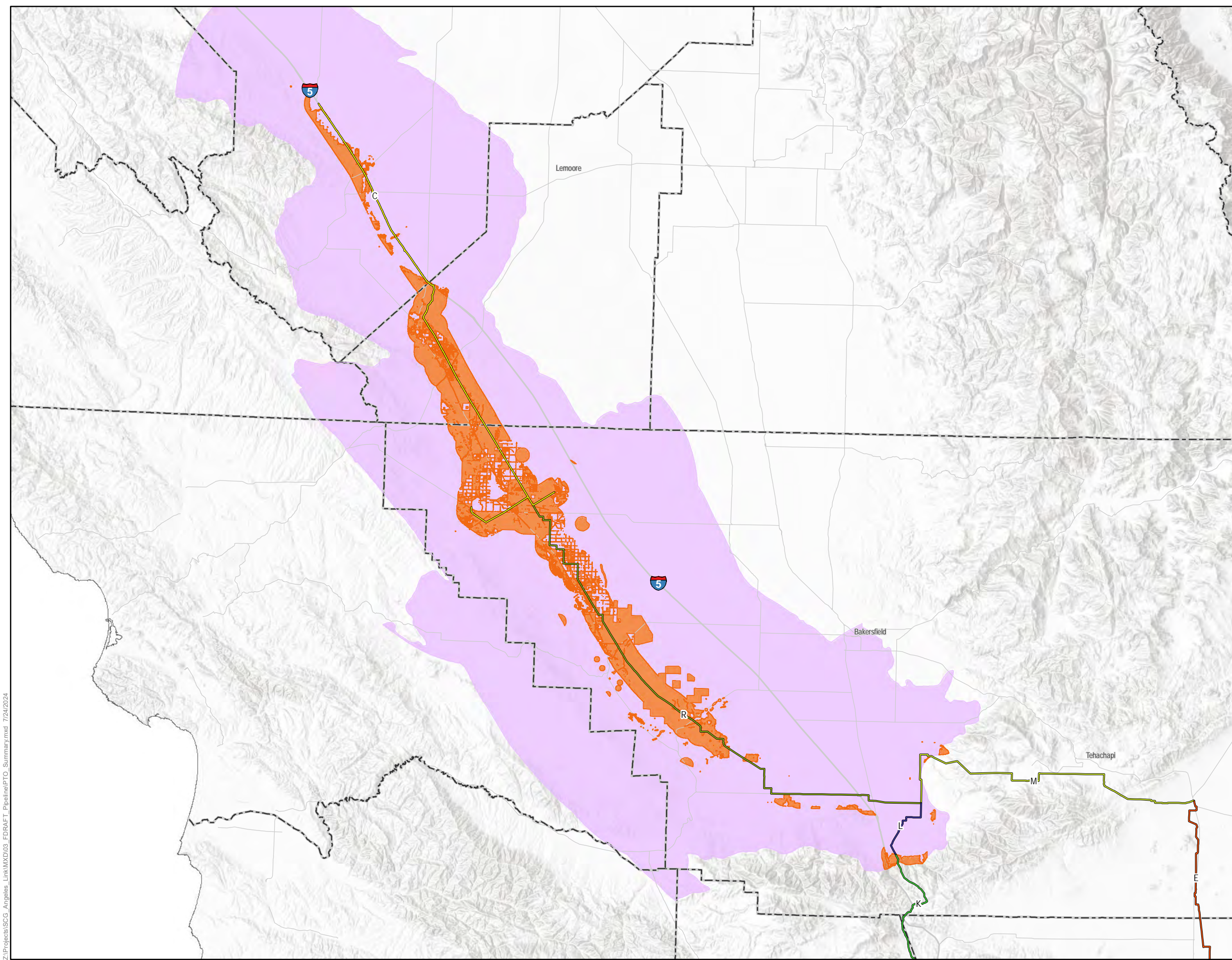




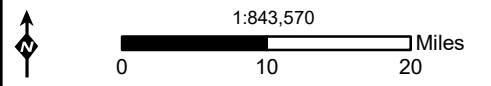
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Nelson's Antelope Squirrel**

**Angies Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
| C              | — State Highway          |
| E              | - - - County Boundary    |
| K              | Orange Labeled Area      |
| L              | Purple Labeled Area      |
| M              | <b>Data Sources</b>      |
| R              | • CNDDDB                 |
|                | • CWHR Predicted Habitat |
|                | • CWHR Species Range     |



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

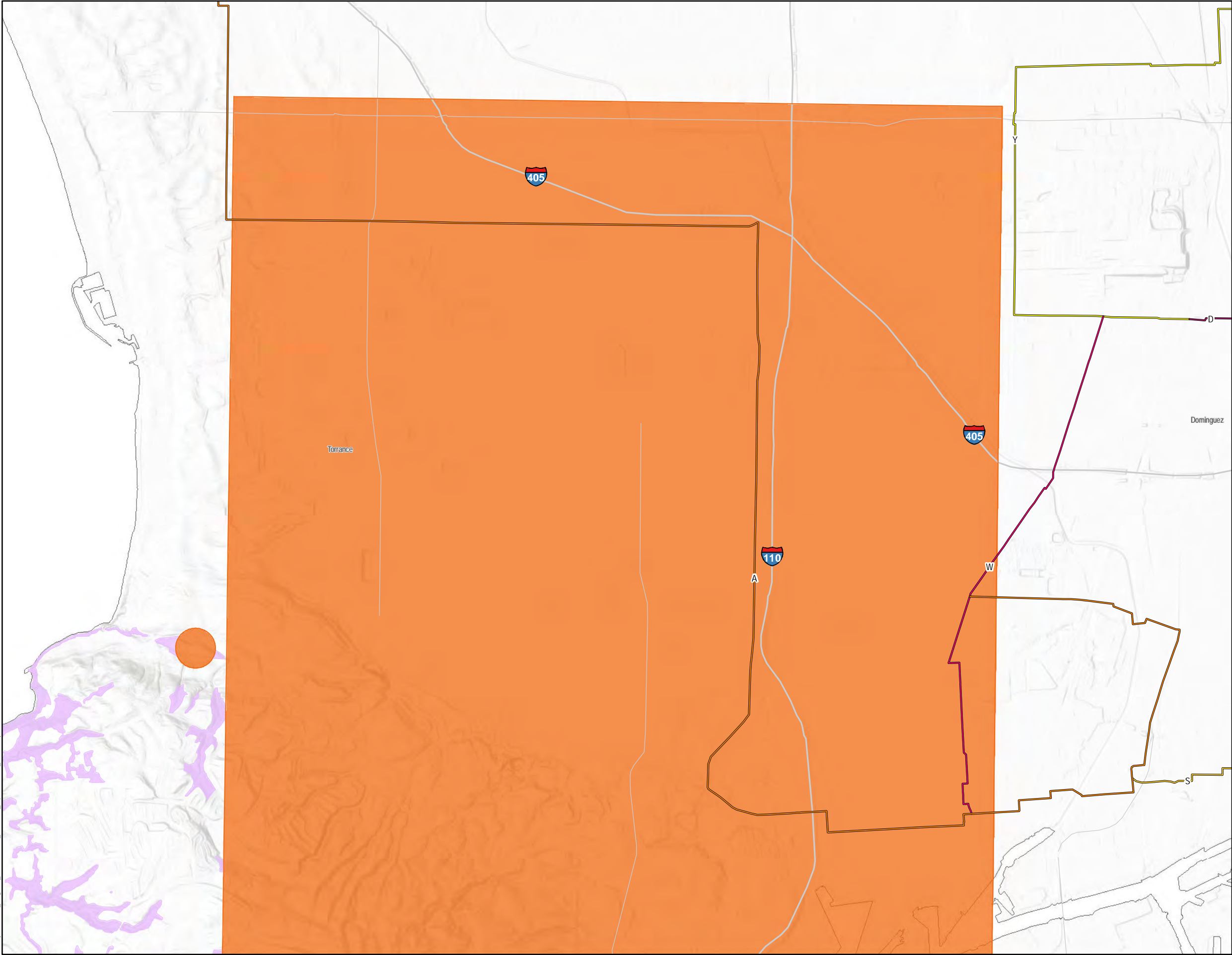


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

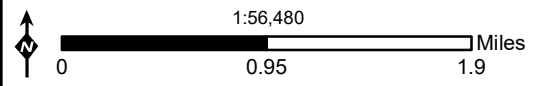
### Attachment B-4: Protected Species Likelihood Occurrence Map Palos Verdes Blue Butterfly

#### Angeles Link Phase 1 Environmental Analysis

- Segment**
- A — Interstate
  - D — State Highway
  - S — Likely to Occur
  - W — Unlikely to Occur
  - Y — Data Sources
- Data Sources**
- CNDDDB
  - USFWS ECOS



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



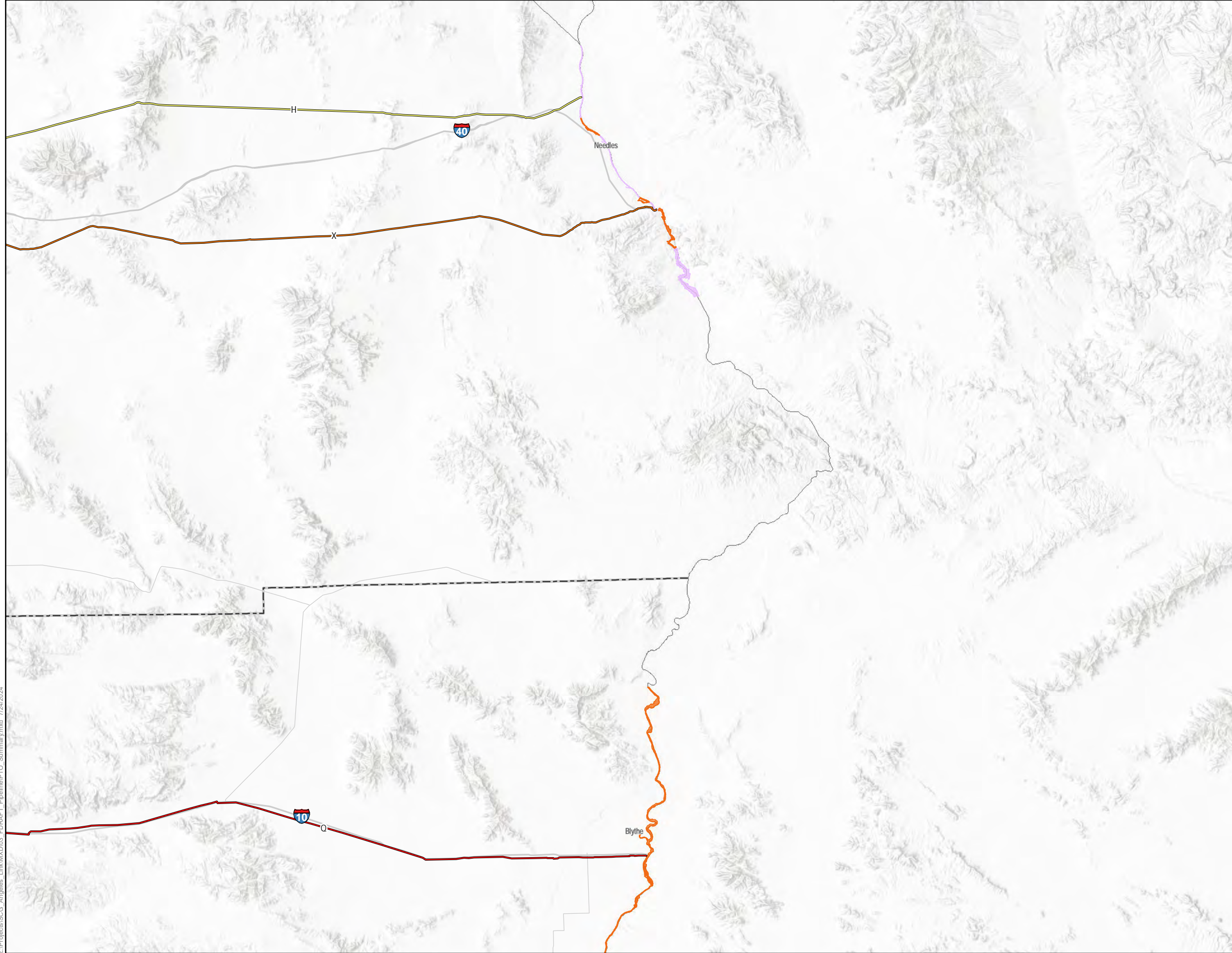
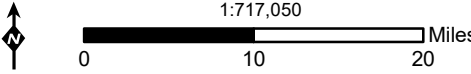
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Razorback Sucker**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                     |
|----------------|---------------------|
| <b>Segment</b> | — Interstate        |
| — H            | — State Highway     |
| — Q            | — County Boundary   |
| — X            | — Likely to Occur   |
|                | — Unlikely to Occur |

- Data Sources**
- CNDDDB
  - USFWS Critical Habitat
  - NWI

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

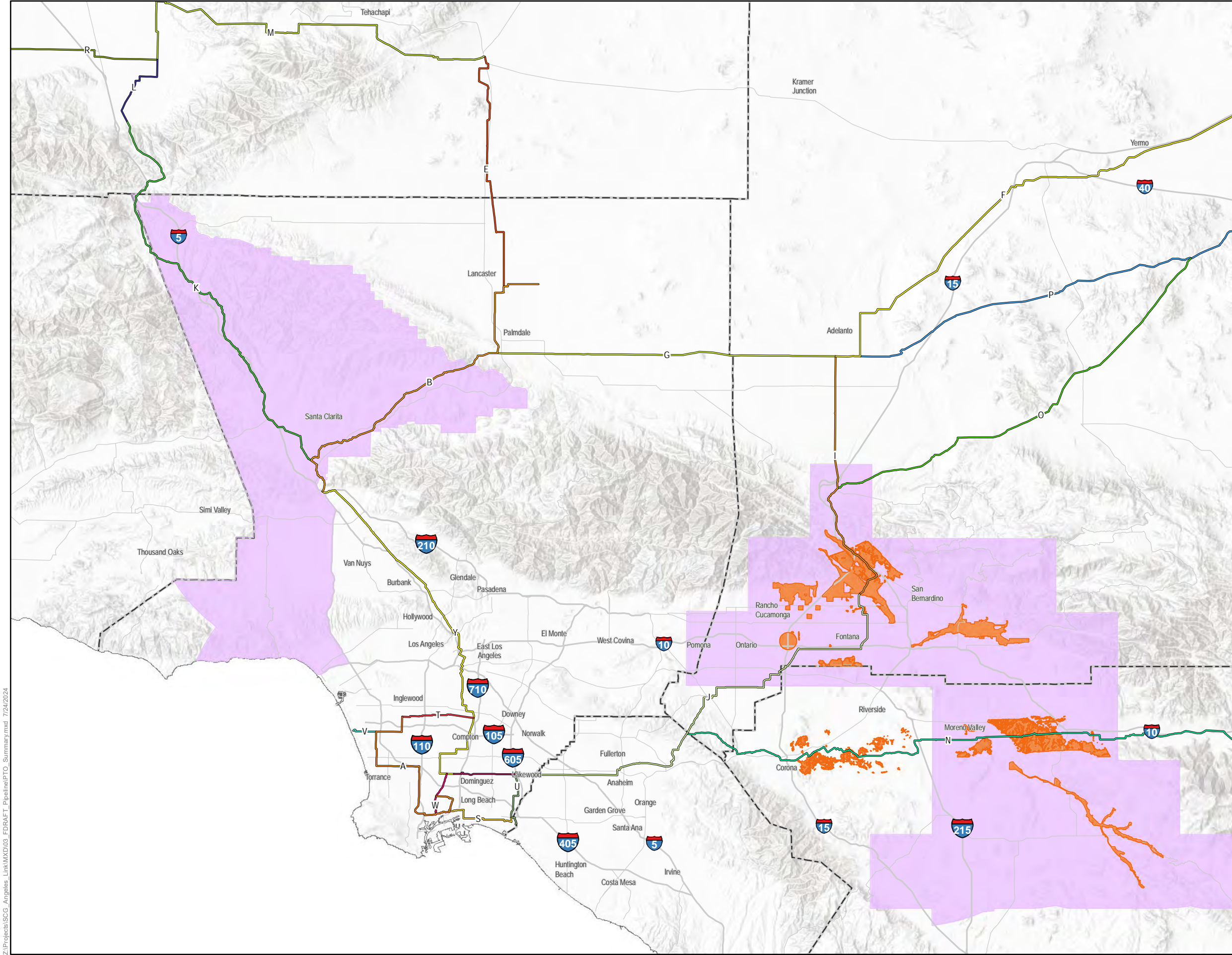
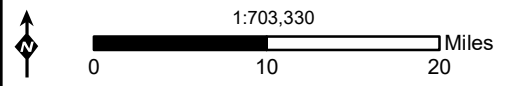


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
San Bernardino Kangaroo Rat**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
|                | — State Highway          |
|                | - - - County Boundary    |
|                | ■ Likely to Occur        |
|                | ■ Unlikely to Occur      |
|                | <b>Data Sources</b>      |
|                | • CNDDDB                 |
|                | • CWHR Predicted Habitat |
|                | • USFWS Critical Habitat |
|                | • USFWS ECOS             |
| A              |                          |
| B              |                          |
| D              |                          |
| E              |                          |
| F              |                          |
| G              |                          |
| I              |                          |
| J              |                          |
| K              |                          |
| L              |                          |
| M              |                          |
| N              |                          |
| O              |                          |
| P              |                          |
| R              |                          |
| S              |                          |
| T              |                          |
| U              |                          |
| V              |                          |
| W              |                          |
| Y              |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

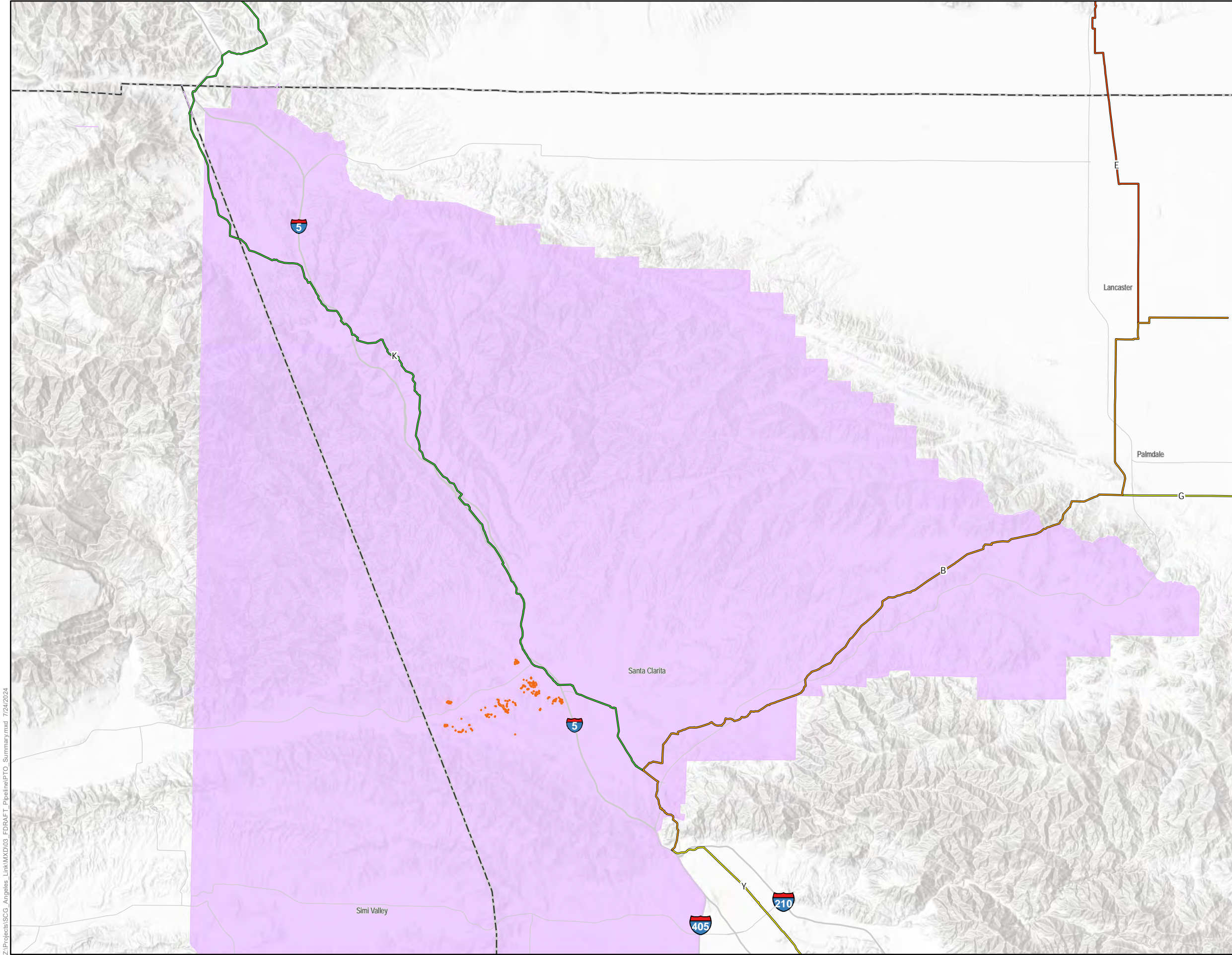


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
San Fernando Valley Spineflower**

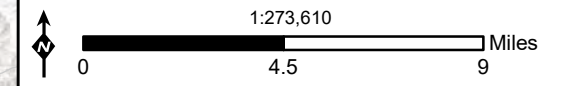
**Angeles Link Phase 1  
Environmental Analysis**

- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
| — B            | — State Highway       |
| — E            | - - - County Boundary |
| — G            | ■ Likely to Occur     |
| — K            | ■ Unlikely to Occur   |
| — Y            | <b>Data Sources</b>   |
|                | • CNDDDB              |
|                | • USFWS ECOS          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

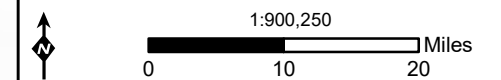
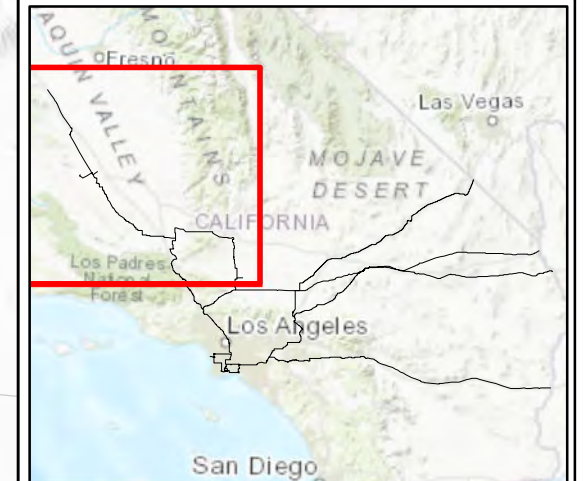


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
San Joaquin Kit Fox**

**Angeles Link Phase 1  
Environmental Analysis**

- |                     |                          |
|---------------------|--------------------------|
| <b>Segment</b>      | — Interstate             |
|                     | — State Highway          |
|                     | - - - County Boundary    |
|                     | Likely to Occur          |
|                     | Unlikely to Occur        |
| <b>Data Sources</b> |                          |
|                     | • CNDDDB                 |
|                     | • CWHR Predicted Habitat |
|                     | • USFWS ECOS             |

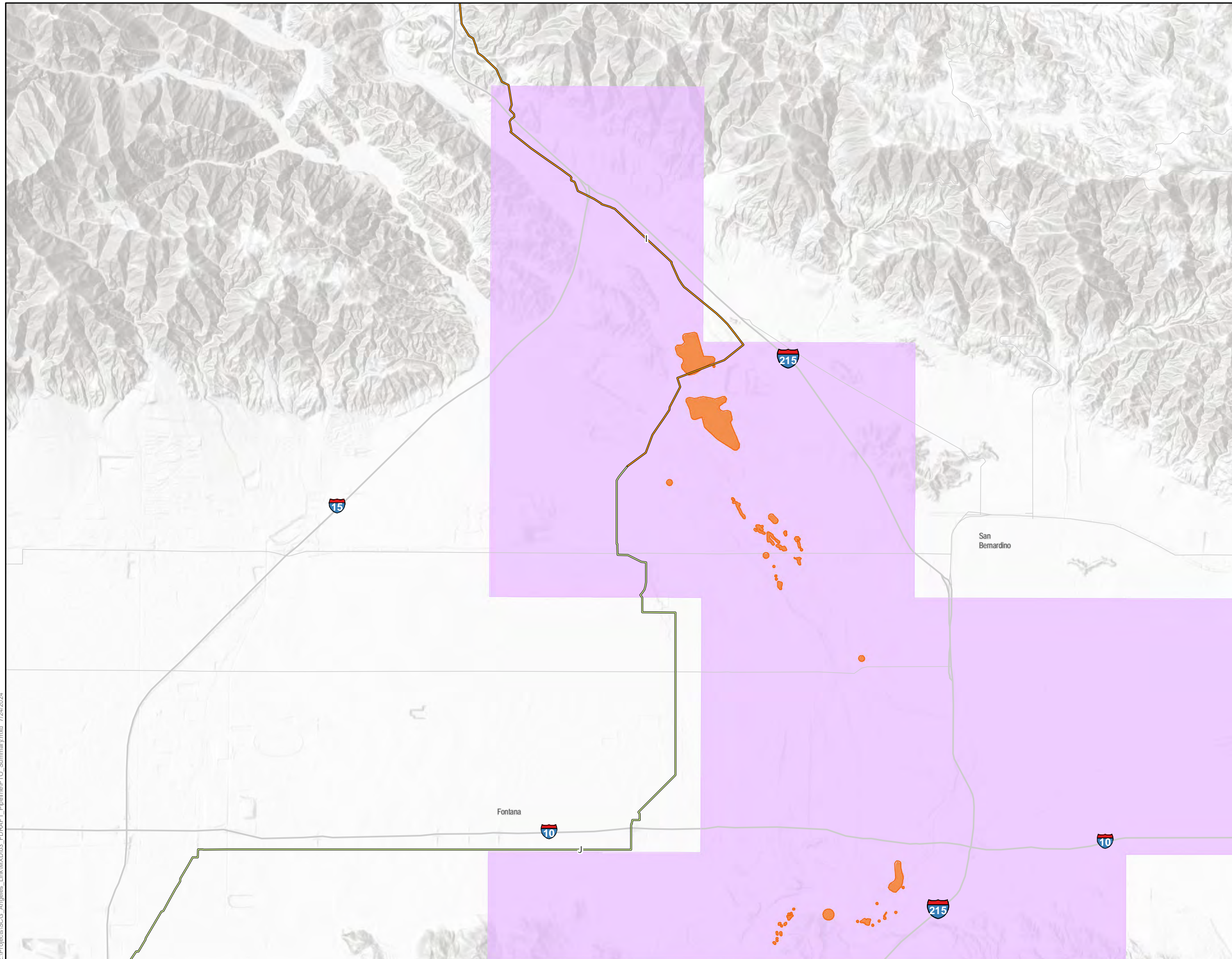
Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



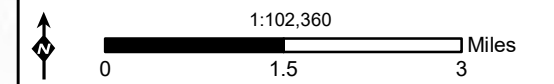
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Santa Ana River Woollystar**

**Angeles Link Phase 1  
Environmental Analysis**

- Segment**
- Interstate
  - State Highway
- Data Sources**
- CNDDDB
  - USFWS ECOS



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

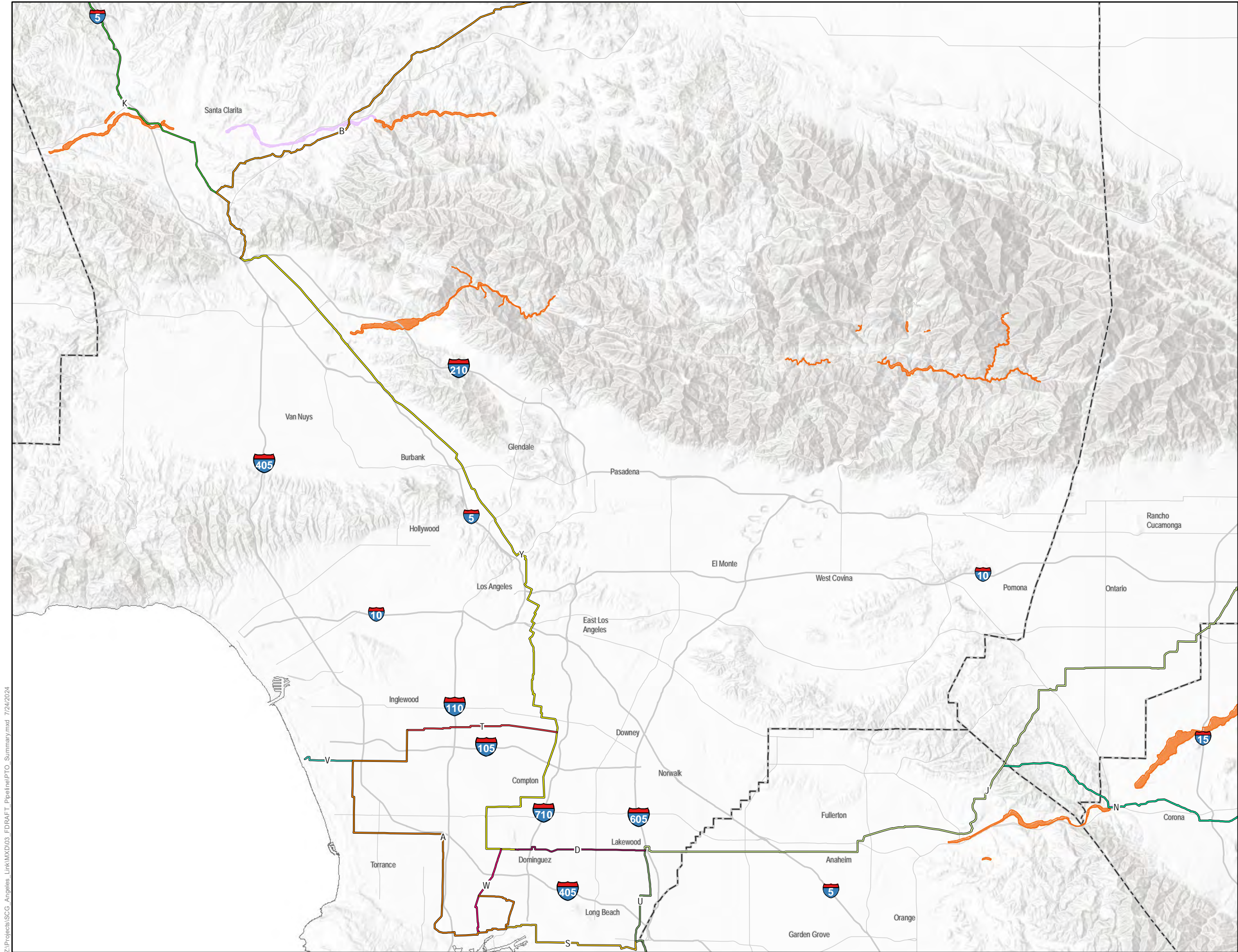
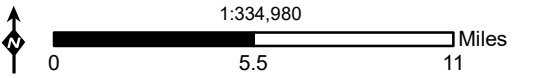


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Santa Ana Sucker**

**Angeles Link Phase 1  
Environmental Analysis**

<b>Segment</b>	— Interstate
	— State Highway
	- - - County Boundary
	Likely to Occur
	Unlikely to Occur
<b>Data Sources</b>	
	• CNDDDB
	• USFWS Critical Habitat
	• NWI
	T
	U
	V
	W
	Y

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

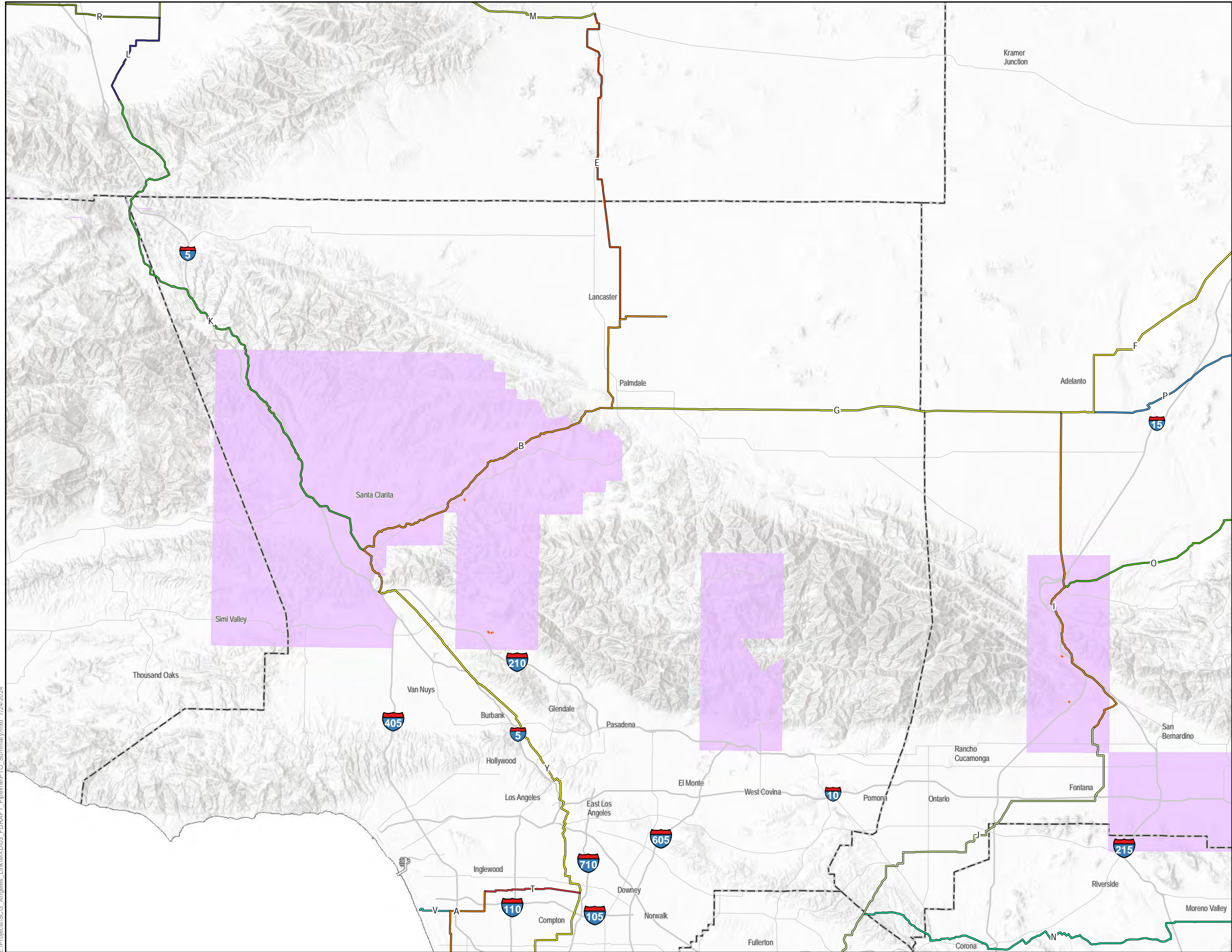
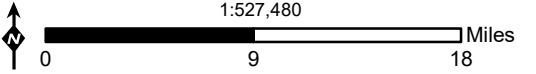
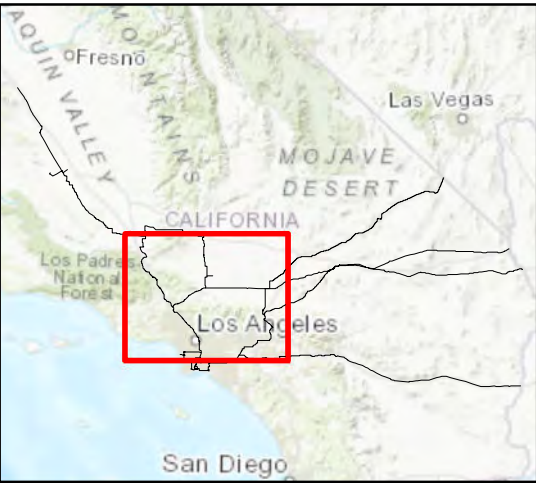


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Slender-Horned Spineflower**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
|                | — State Highway       |
|                | - - - County Boundary |
|                | ■ Likely to Occur     |
|                | ■ Unlikely to Occur   |
|                | <b>Data Sources</b>   |
|                | • CNDDDB              |
|                | • USFWS ECOS          |
- A
  - B
  - E
  - F
  - G
  - I
  - J
  - K
  - L
  - M
  - N
  - O
  - P
  - R
  - T
  - V
  - Y

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

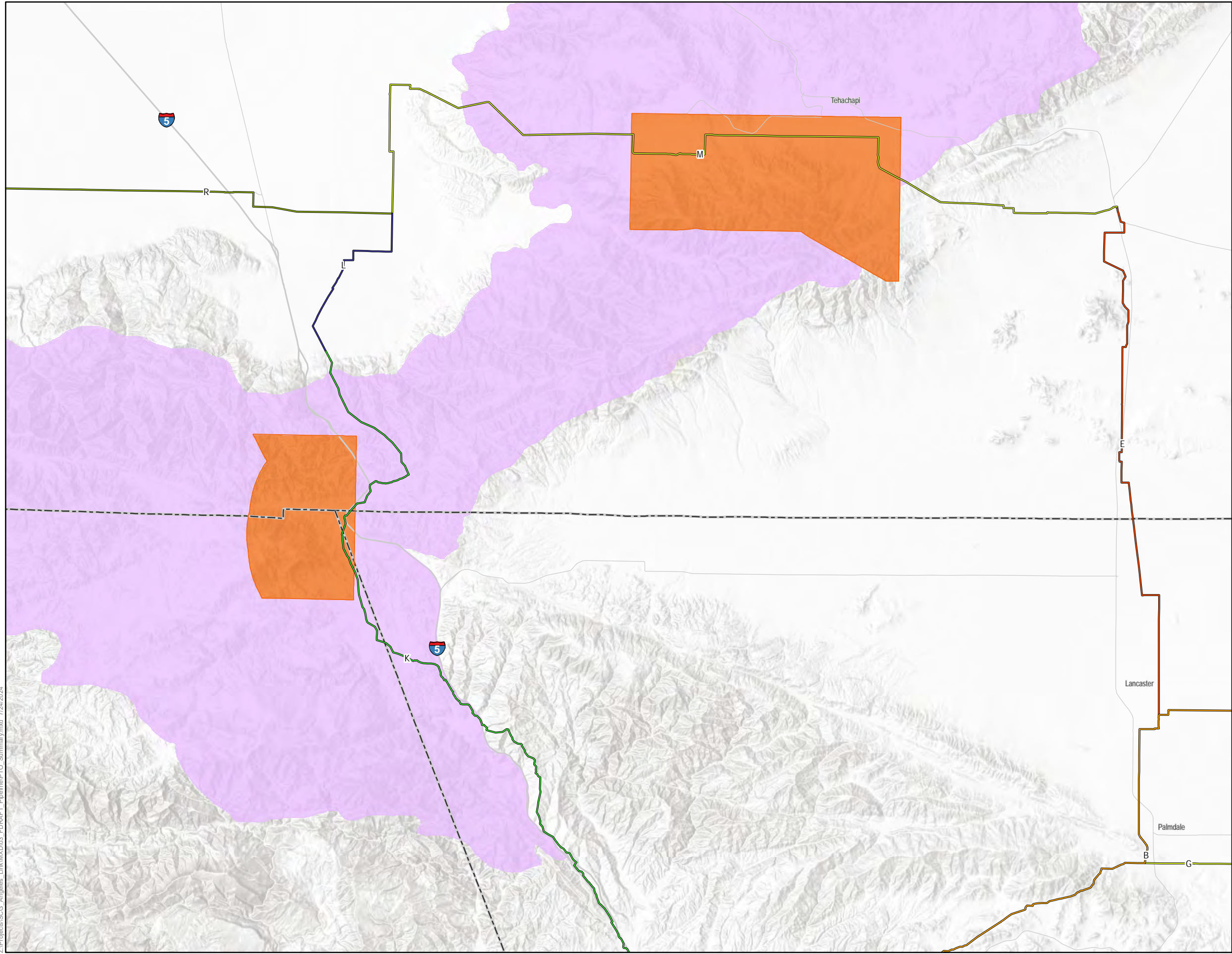
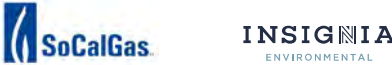


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Southern Rubber Boa**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                      |
|----------------|----------------------|
| <b>Segment</b> | — Interstate         |
| — B            | — State Highway      |
| — E            | — County Boundary    |
| — G            | ■ Likely to Occur    |
| — K            | ■ Unlikely to Occur  |
| — L            | <b>Data Sources</b>  |
| — M            | • CNDDDB             |
| — R            | • CWHR Species Range |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

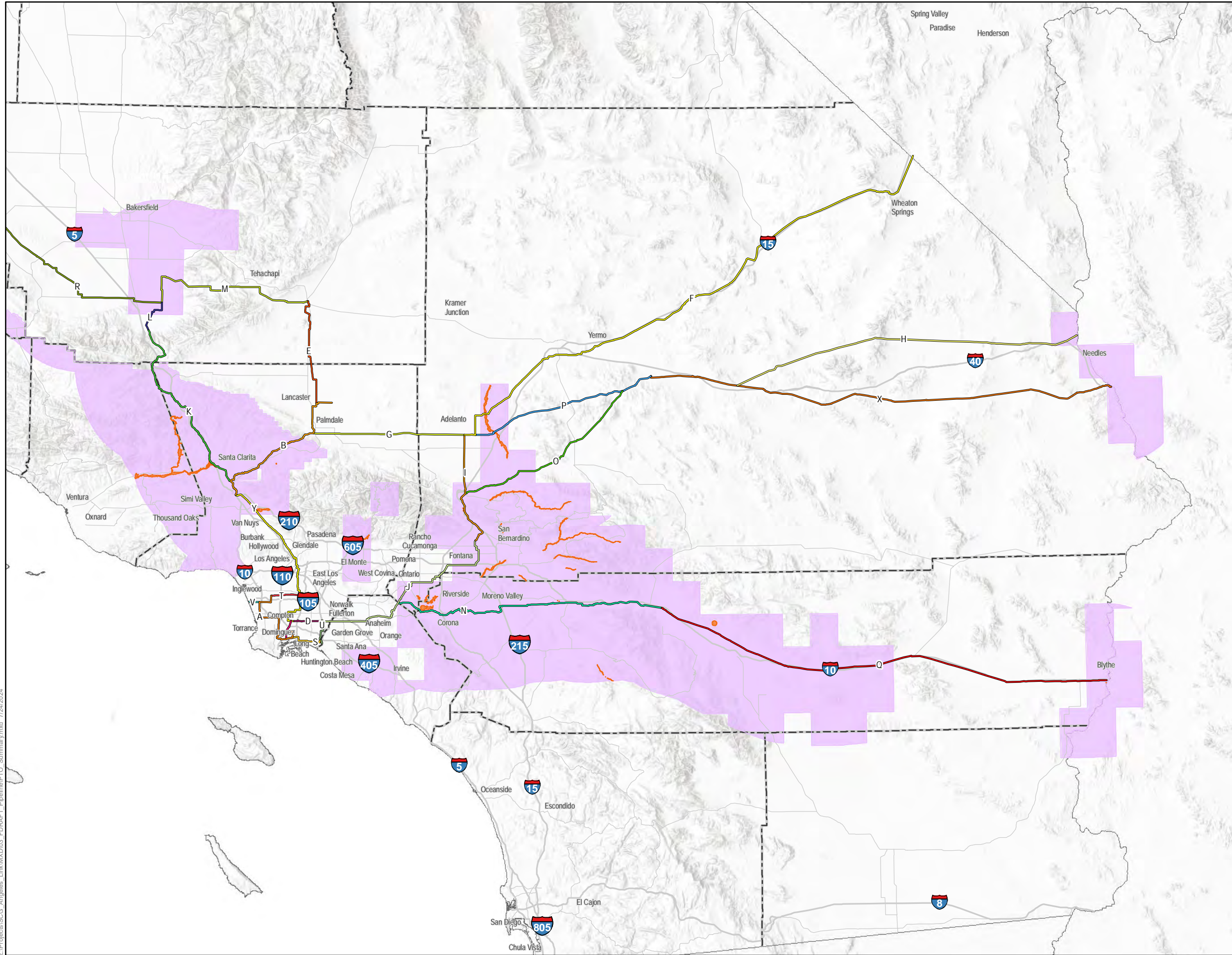
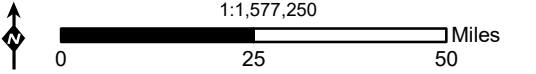
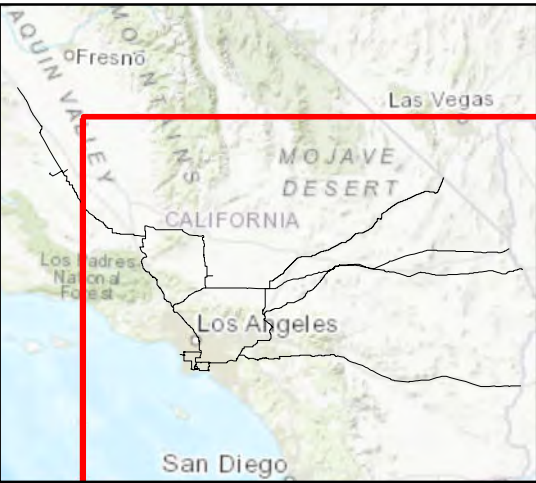


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Southwestern Willow Flycatcher**

**Angeles Link Phase 1  
Environmental Analysis**

- |                     |                          |
|---------------------|--------------------------|
| <b>Segment</b>      | — Interstate             |
|                     | — State Highway          |
|                     | - - - County Boundary    |
|                     | Likely to Occur          |
|                     | Unlikely to Occur        |
| <b>Data Sources</b> |                          |
|                     | • CNDDDB                 |
|                     | • USFWS Critical Habitat |
|                     | • USFWS ECOS             |
|                     | A                        |
|                     | B                        |
|                     | D                        |
|                     | E                        |
|                     | F                        |
|                     | G                        |
|                     | H                        |
|                     | I                        |
|                     | J                        |
|                     | K                        |
|                     | L                        |
|                     | M                        |
|                     | N                        |
|                     | O                        |
|                     | P                        |
|                     | Q                        |
|                     | R                        |
|                     | S                        |
|                     | T                        |
|                     | U                        |
|                     | V                        |
|                     | W                        |
|                     | X                        |
|                     | Y                        |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

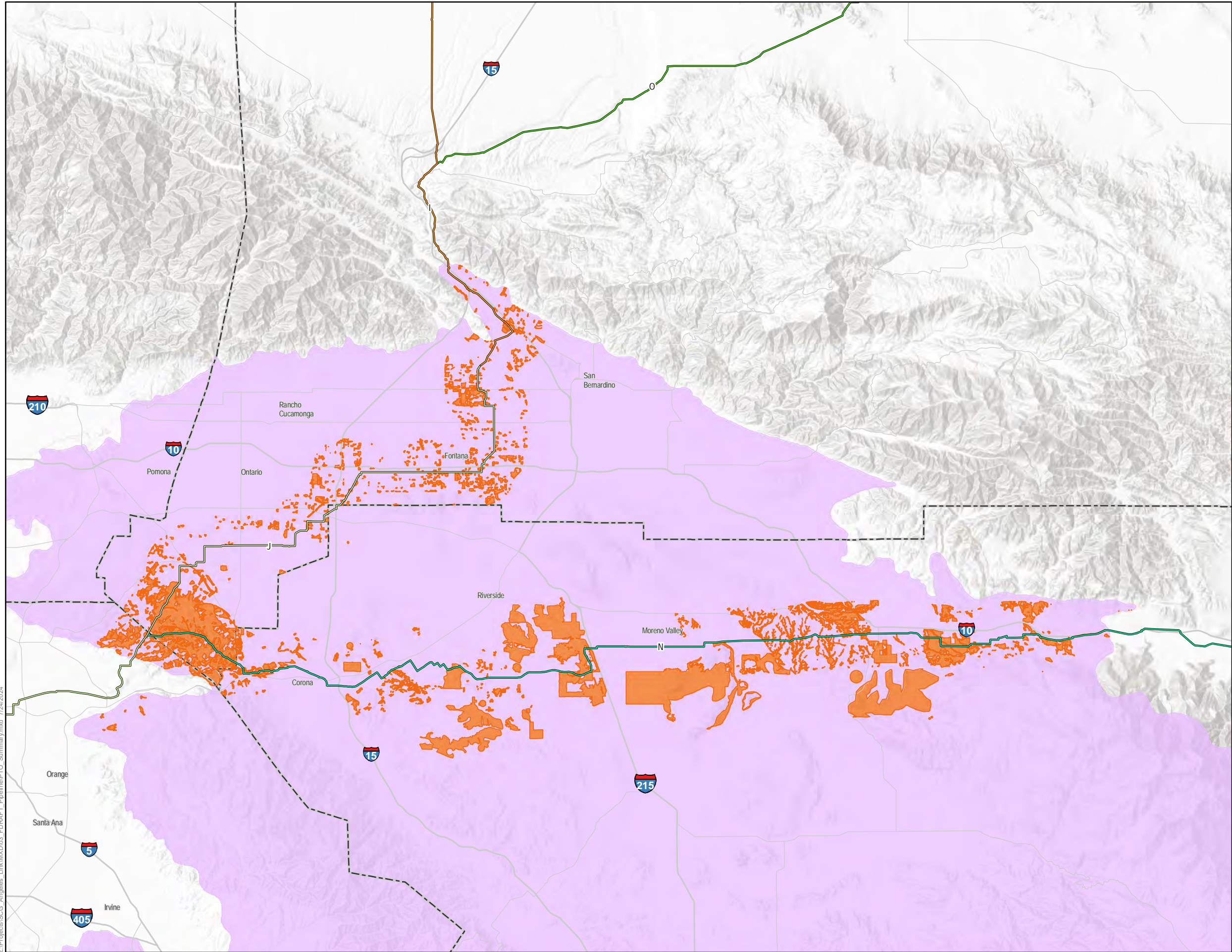


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

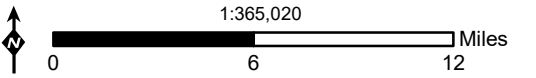
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Stephens' Kangaroo Rat**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
| I              | — State Highway       |
| J              | - - - County Boundary |
| N              | ■ Likely to Occur     |
| O              | ■ Unlikely to Occur   |
- Data Sources**
- CNDDDB
  - CWHR Predicted Habitat
  - CWHR Species Range



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

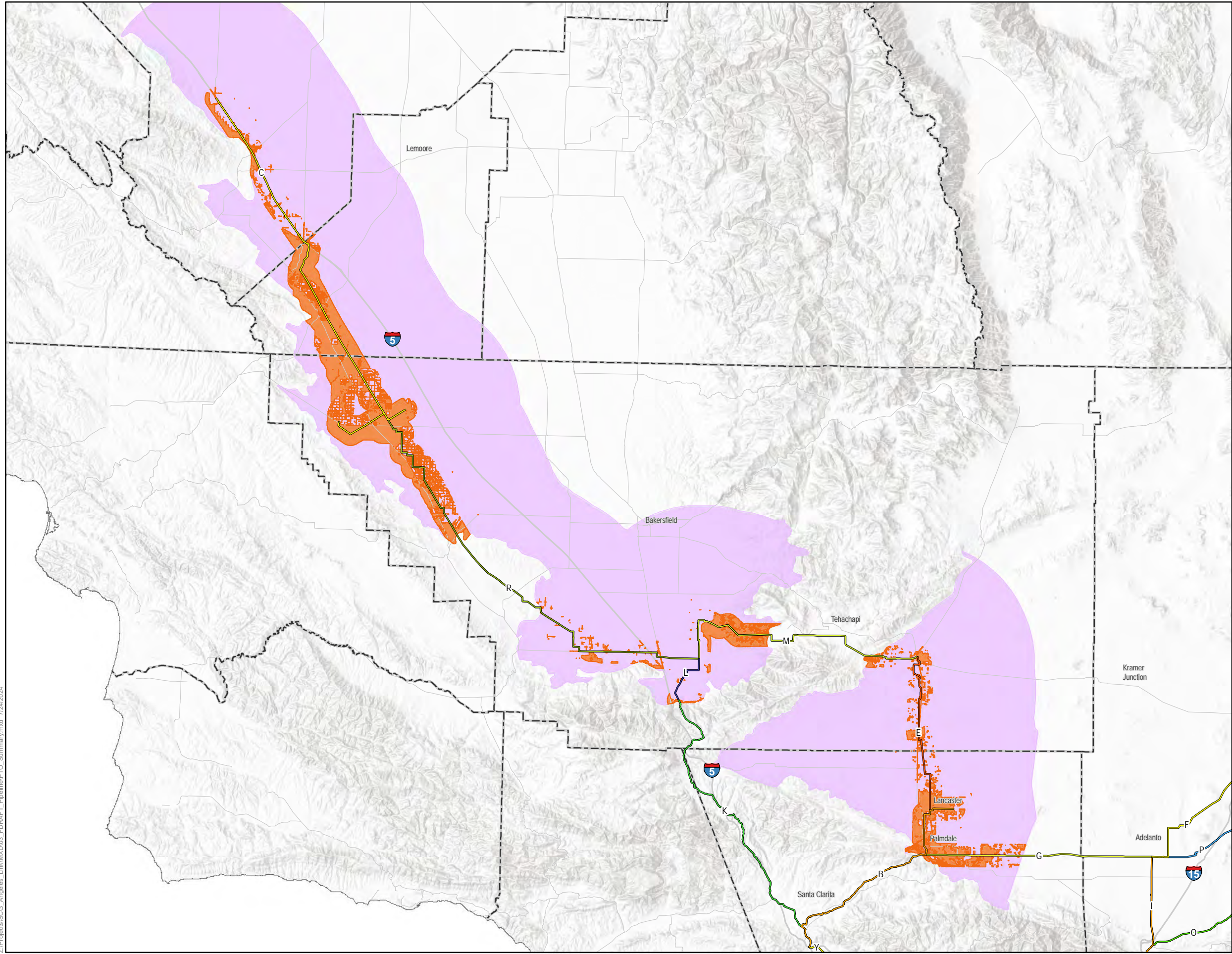
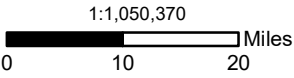
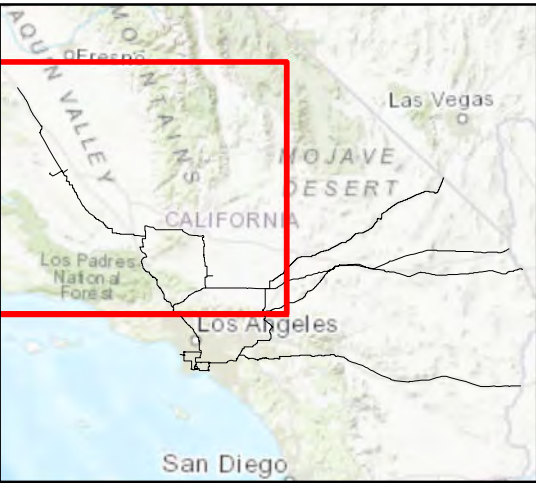


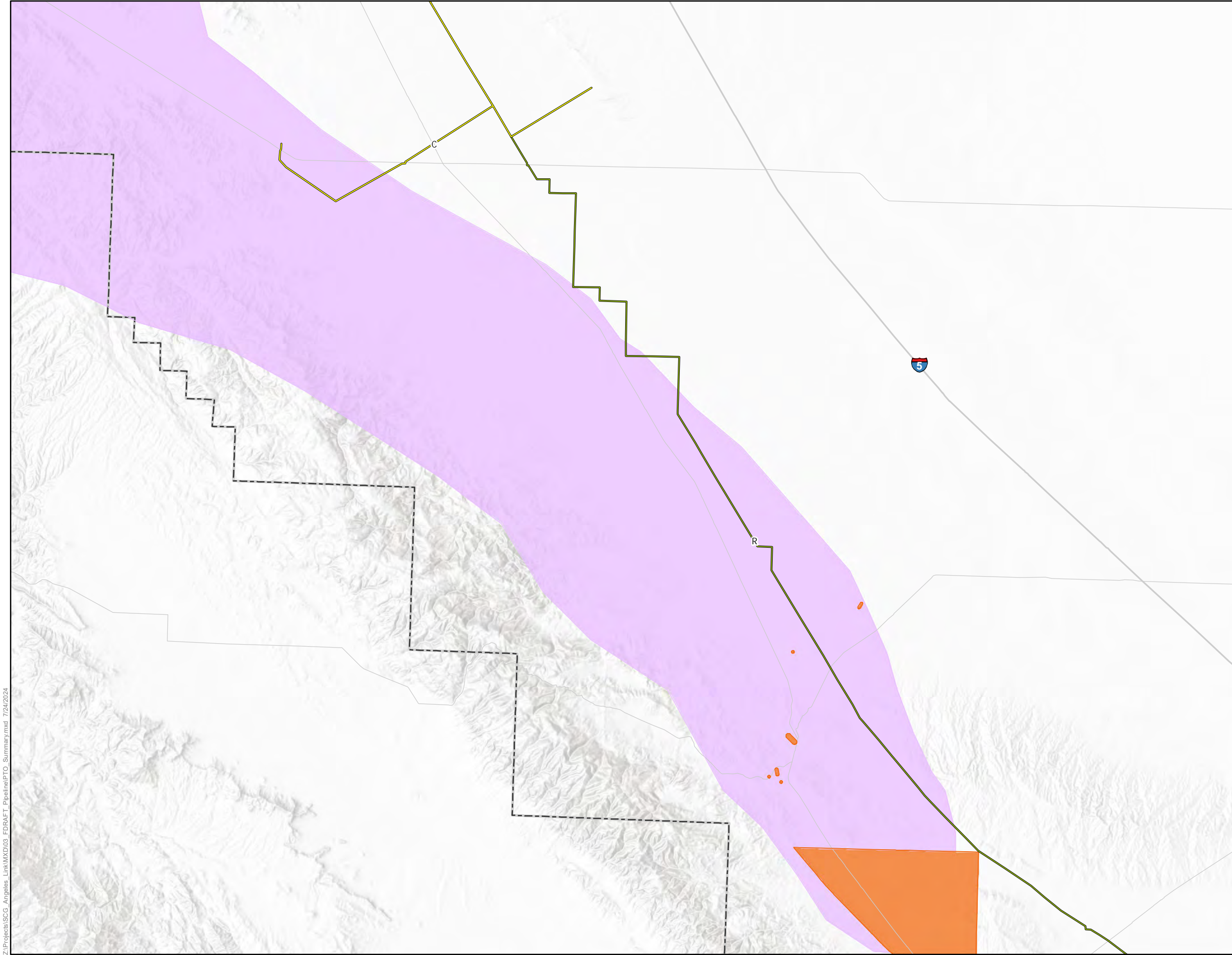
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Swainson's Hawk**

**Angeles Link Phase 1  
Environmental Analysis**

- |                     |                          |
|---------------------|--------------------------|
| <b>Segment</b>      | — Interstate             |
| B                   | — State Highway          |
| C                   | - - - County Boundary    |
| E                   | ■ Likely to Occur        |
| F                   | ■ Unlikely to Occur      |
| <b>Data Sources</b> |                          |
| I                   | • CNDDDB                 |
| K                   | • CWHR Predicted Habitat |
| L                   | • CWHR Species Range     |
| M                   |                          |
| O                   |                          |
| P                   |                          |
| R                   |                          |
| Y                   |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.





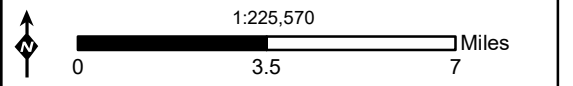
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Temblor Legless Lizard**

**Angeles Link Phase 1  
Environmental Analysis**

- Segment**
- C
  - R
- Data Sources**
- CNDDDB
  - CBD

- Interstate
- State Highway
- County Boundary
- Likely to Occur
- Unlikely to Occur

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

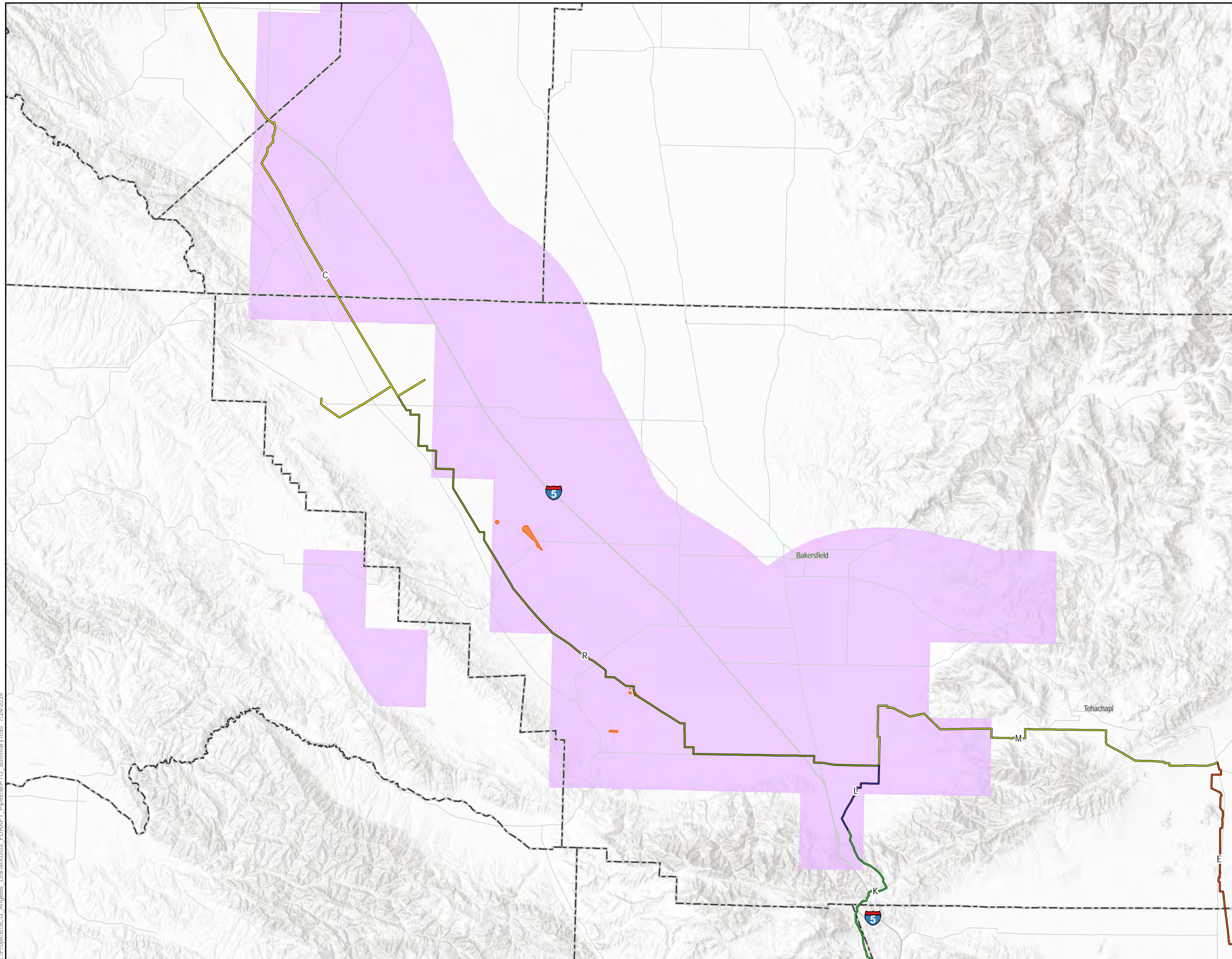


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

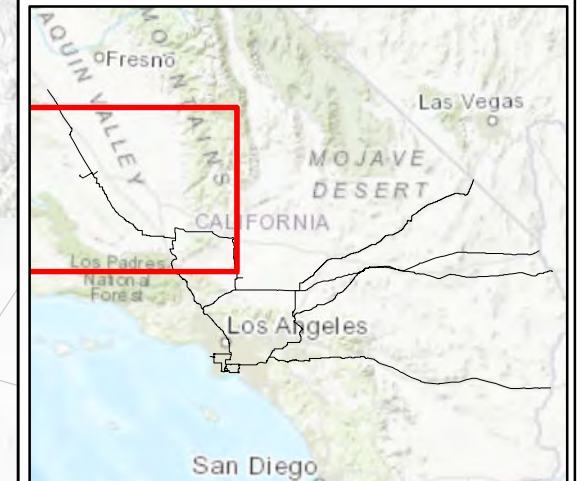
**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Tipton Kangaroo Rat**

**Angeles Link Phase 1  
Environmental Analysis**

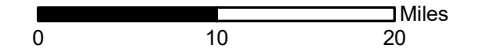
- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
| — C            | — State Highway       |
| — E            | - - - County Boundary |
| — K            | ■ Likely to Occur     |
| — L            | ■ Unlikely to Occur   |
| — M            | <b>Data Sources</b>   |
| — R            | • CNDDDB              |
|                | • USFWS ECOS          |



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



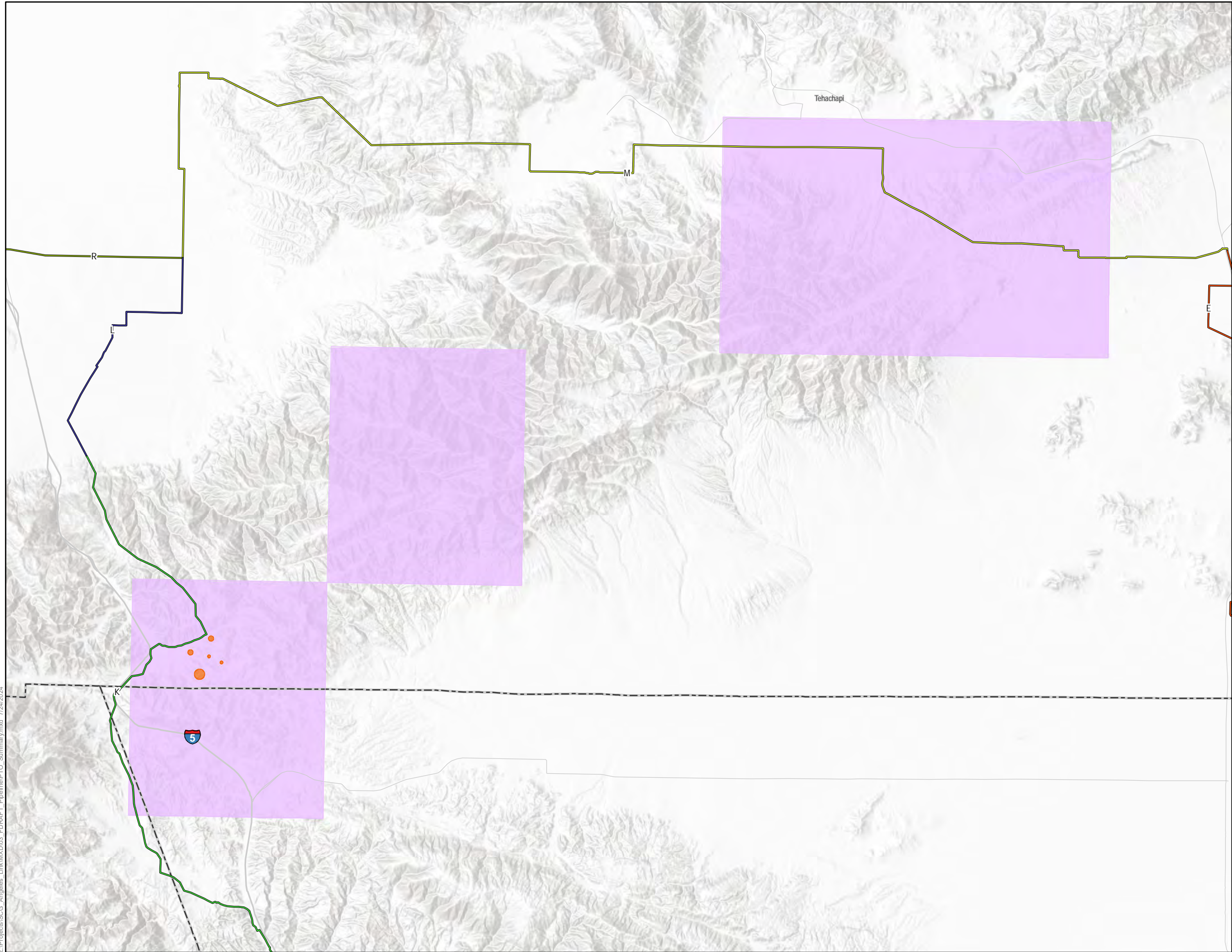
1:682,940



**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Tracy's Eriastrum**

**Angeles Link Phase 1  
Environmental Analysis**

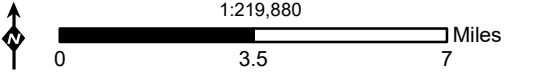
- |                |                     |
|----------------|---------------------|
| <b>Segment</b> | — Interstate        |
| — E            | — State Highway     |
| — K            | — County Boundary   |
| — L            | ● Likely to Occur   |
| — M            | ■ Unlikely to Occur |
| — R            | <b>Data Sources</b> |
|                | ● CNDDDB            |
|                | ● CNPS              |



Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024



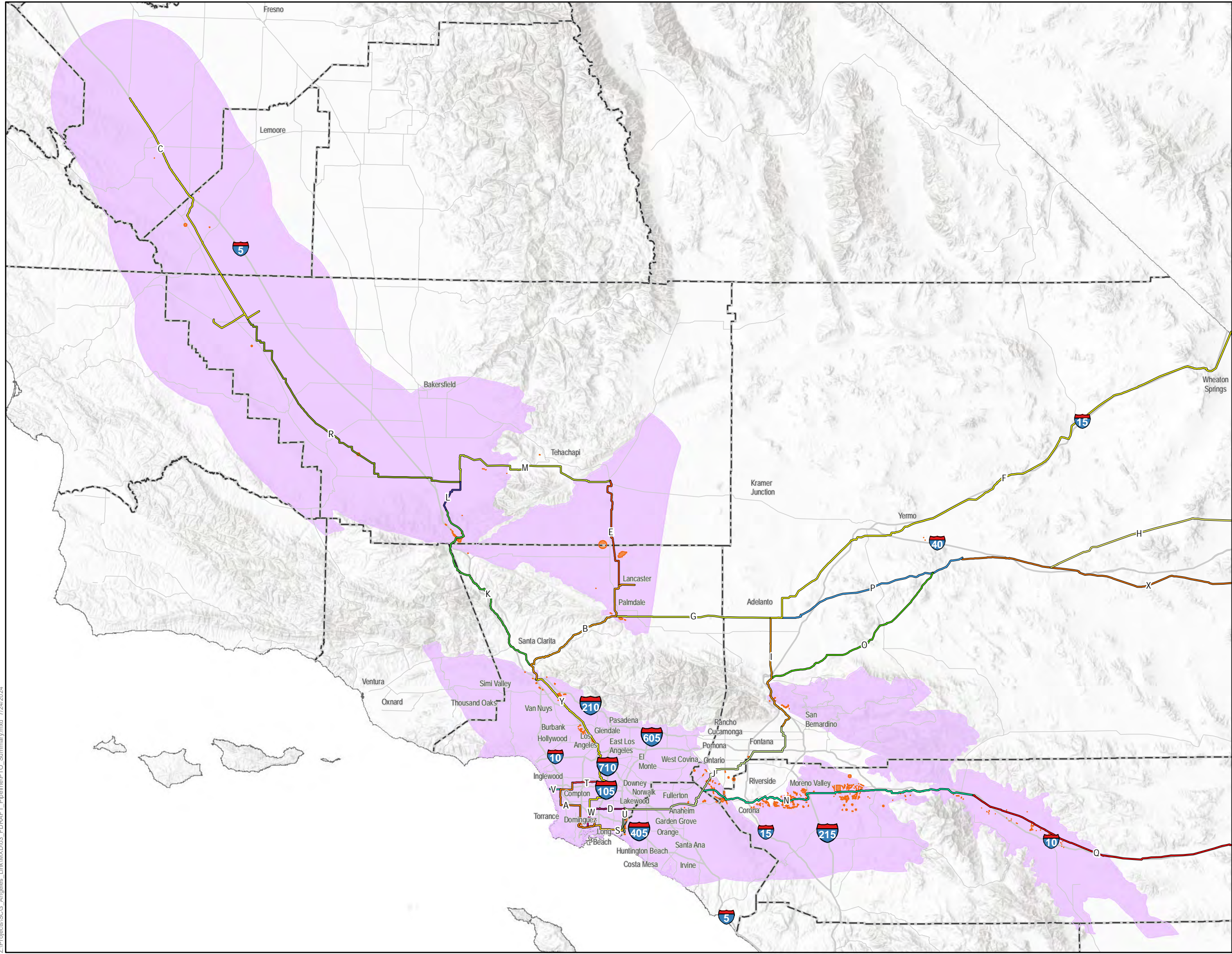
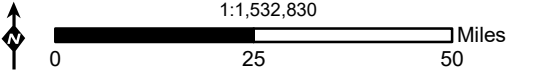


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Tricolored Blackbird**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
|                | — State Highway          |
|                | - - - County Boundary    |
|                | ■ Likely to Occur        |
|                | ■ Unlikely to Occur      |
|                | <b>Data Sources</b>      |
| ● F            | • CNDDDB                 |
| ● G            | • CWHR Predicted Habitat |
| ● H            | • CWHR Species Range     |
| — A            |                          |
| — B            |                          |
| — C            |                          |
| — D            |                          |
| — E            |                          |
| — F            |                          |
| — G            |                          |
| — H            |                          |
| — I            |                          |
| — J            |                          |
| — K            |                          |
| — L            |                          |
| — M            |                          |
| — N            |                          |
| — O            |                          |
| — P            |                          |
| — Q            |                          |
| — R            |                          |
| — S            |                          |
| — T            |                          |
| — U            |                          |
| — V            |                          |
| — W            |                          |
| — X            |                          |
| — Y            |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

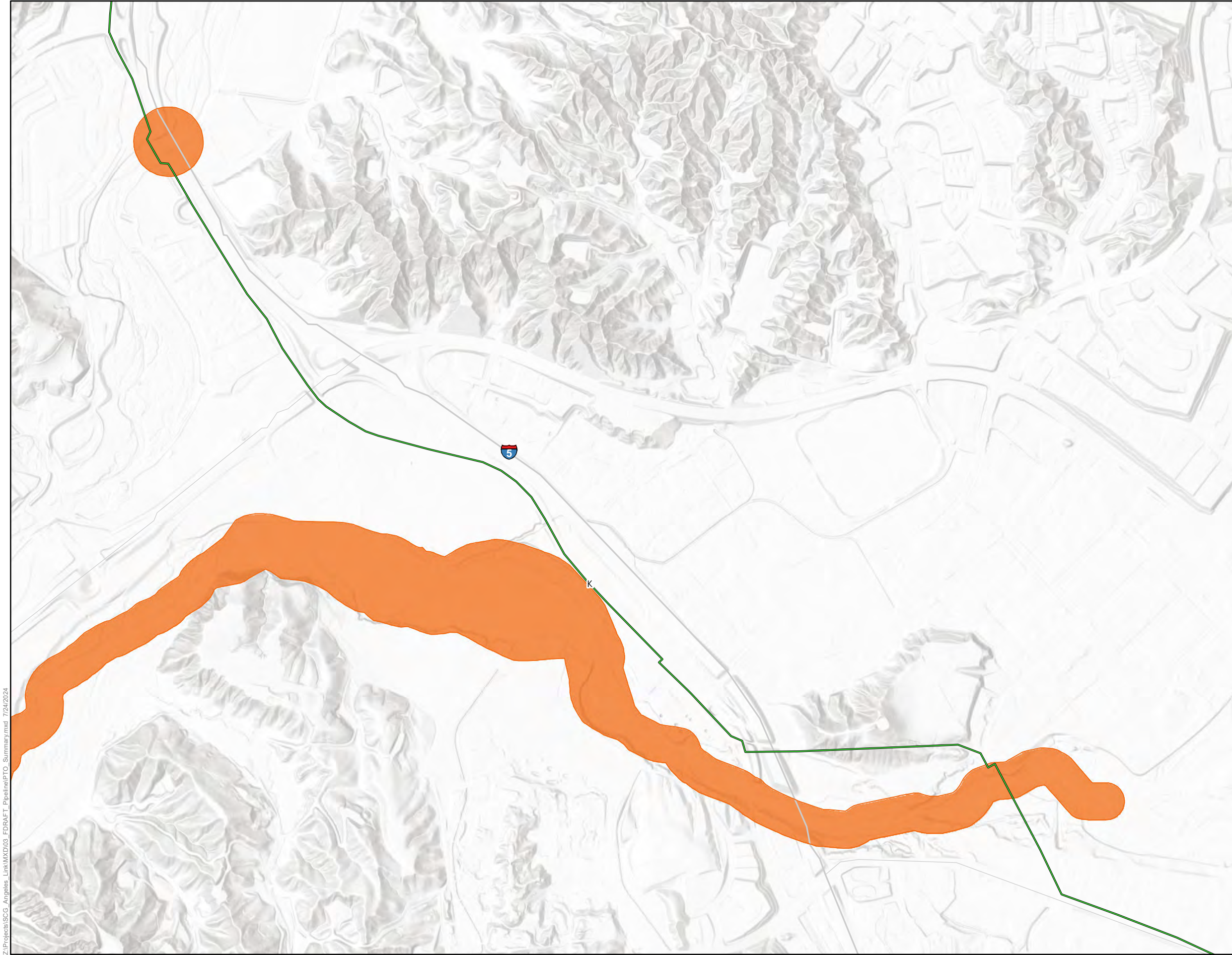
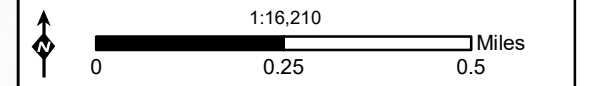


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Unarmored Threespine Stickleback**

**Angeles Link Phase 1  
Environmental Analysis**

- Segment**
- Interstate
  - State Highway
  - Likely to Occur
- Data Sources**
- CNDDDB

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



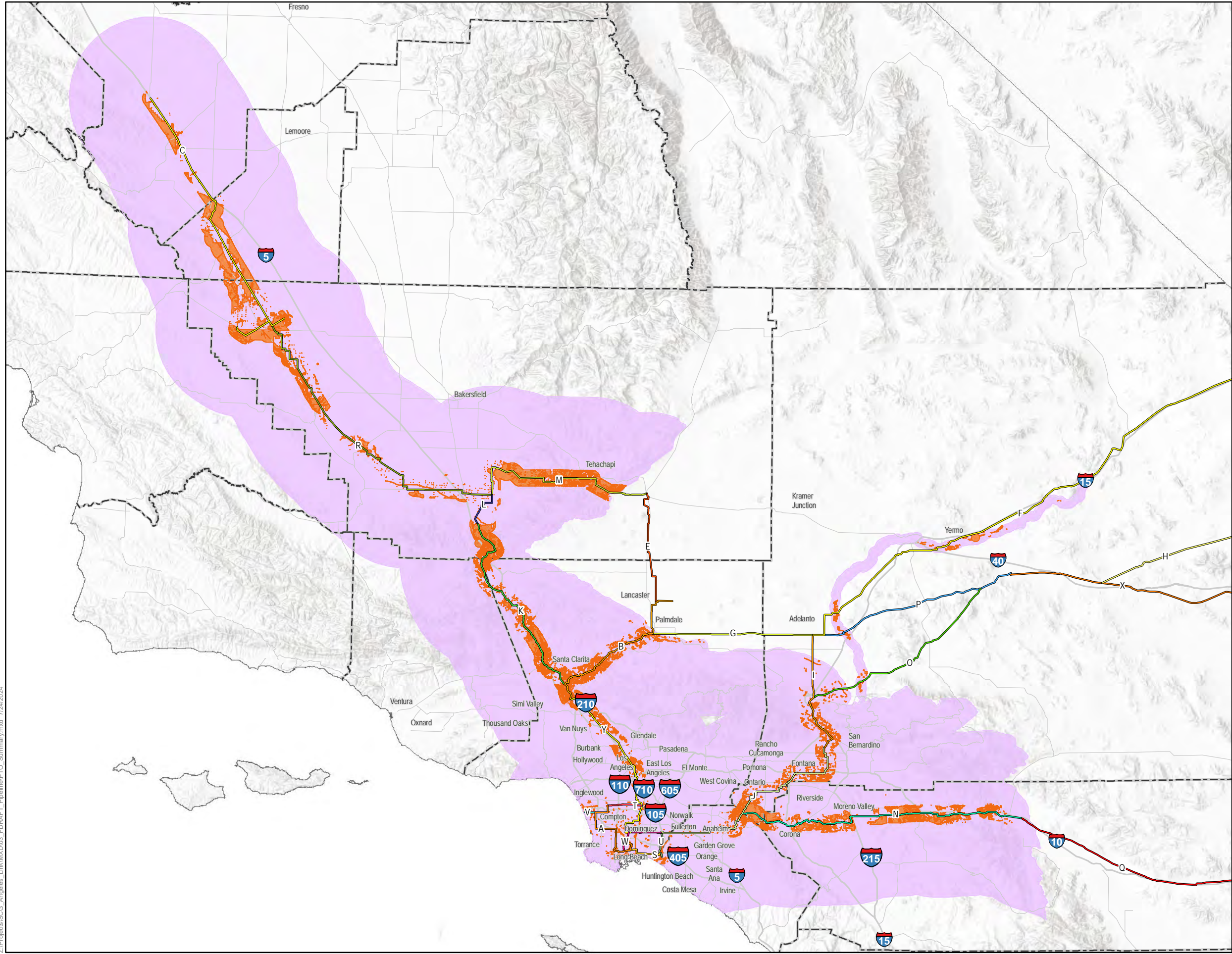
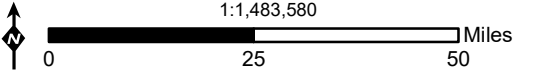
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Western Pond Turtle**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
|                | — State Highway          |
|                | - - - County Boundary    |
|                | ■ Likely to Occur        |
|                | ■ Unlikely to Occur      |
|                | <b>Data Sources</b>      |
|                | • CNDDDB                 |
|                | • CWHR Predicted Habitat |
|                | • CWHR Species Range     |
| A              |                          |
| B              |                          |
| C              |                          |
| D              |                          |
| E              |                          |
| F              |                          |
| G              |                          |
| H              |                          |
| I              |                          |
| J              |                          |
| K              |                          |
| L              |                          |
| M              |                          |
| N              |                          |
| O              |                          |
| P              |                          |
| Q              |                          |
| R              |                          |
| S              |                          |
| T              |                          |
| U              |                          |
| V              |                          |
| W              |                          |
| X              |                          |
| Y              |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

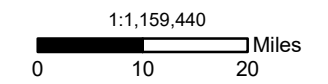
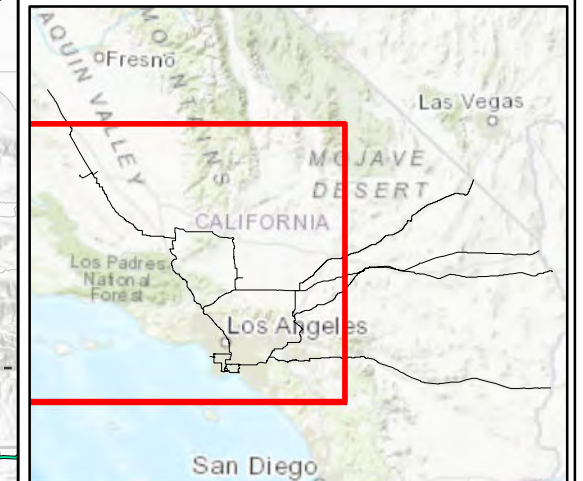


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Western Snowy Plover**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
| A              | — State Highway          |
| B              | - - - County Boundary    |
| C              | ■ Likely to Occur        |
| D              | ■ Unlikely to Occur      |
| E              | <b>Data Sources</b>      |
| F              | • CWHR Species Range     |
| G              | • USFWS Critical Habitat |
| I              |                          |
| J              |                          |
| K              |                          |
| L              |                          |
| M              |                          |
| N              |                          |
| O              |                          |
| P              |                          |
| R              |                          |
| S              |                          |
| T              |                          |
| U              |                          |
| V              |                          |
| W              |                          |
| Y              |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

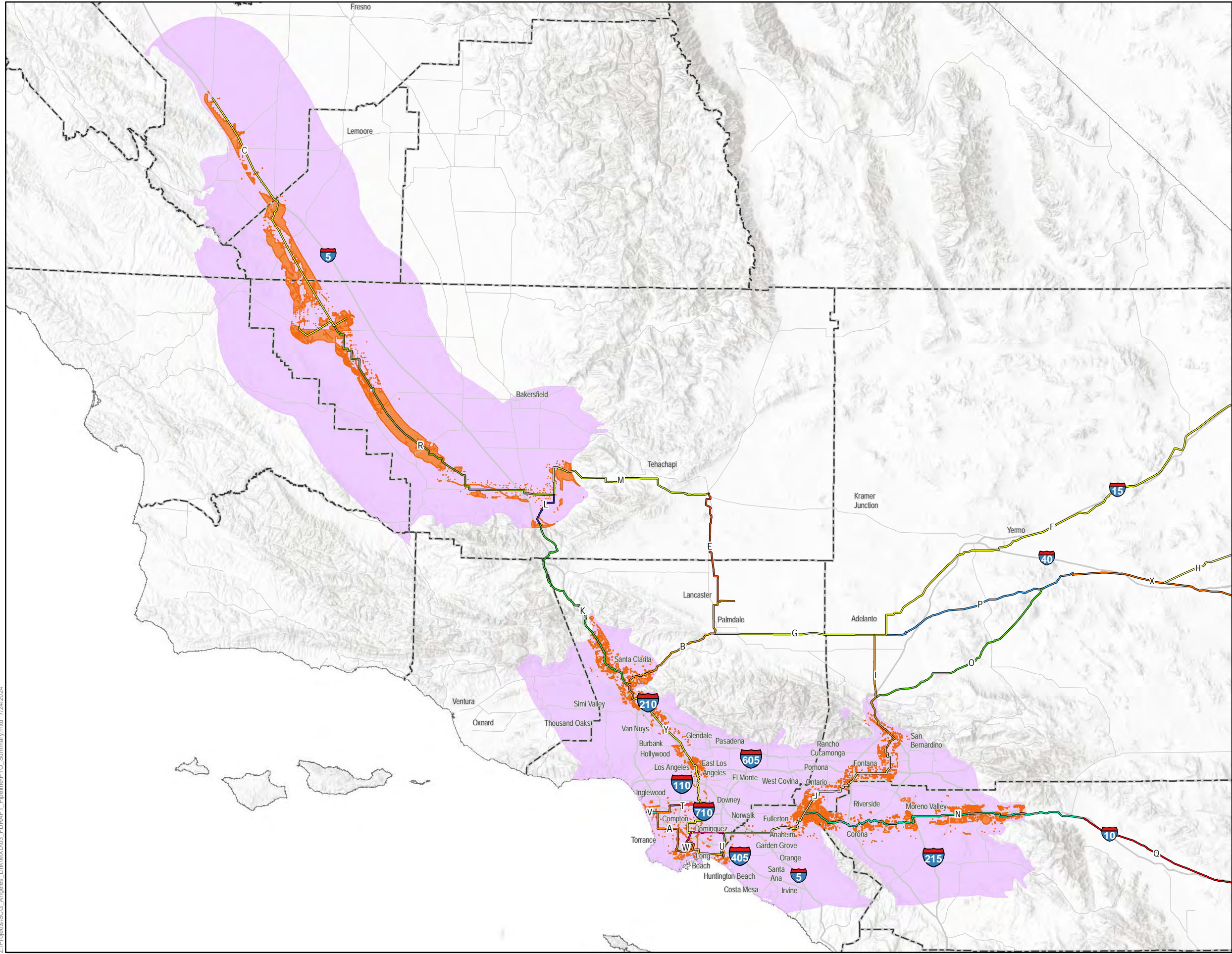
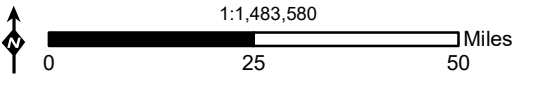


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Western Spadefoot**

**Angeles Link Phase 1  
Environmental Analysis**

- |                |                          |
|----------------|--------------------------|
| <b>Segment</b> | — Interstate             |
|                | — State Highway          |
|                | - - - County Boundary    |
| — A            | — Likely to Occur        |
| — B            | — Unlikely to Occur      |
| — C            | <b>Data Sources</b>      |
| — D            | • CNDDDB                 |
| — E            | • CWHR Predicted Habitat |
| — F            | • CWHR Species Range     |
| — G            |                          |
| — H            |                          |
| — I            |                          |
| — J            |                          |
| — K            |                          |
| — L            |                          |
| — M            |                          |
| — N            |                          |
| — O            |                          |
| — P            |                          |
| — Q            |                          |
| — R            |                          |
| — S            |                          |
| — T            |                          |
| — U            |                          |
| — V            |                          |
| — W            |                          |
| — X            |                          |
| — Y            |                          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

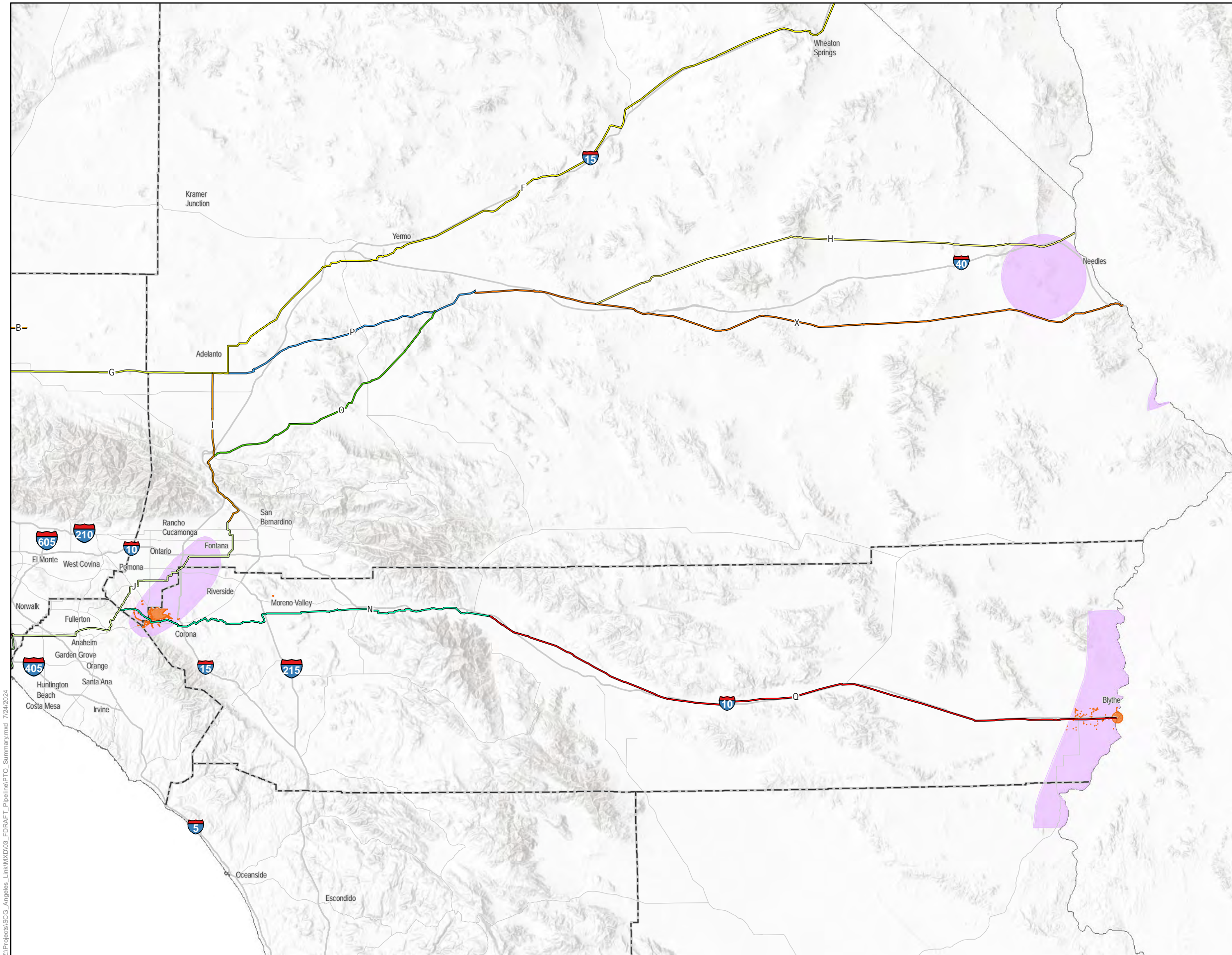
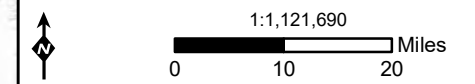
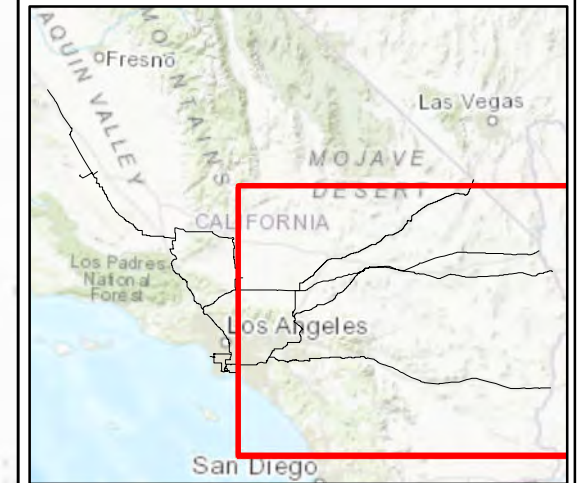


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Western Yellow-Billed Cuckoo**

**Angeles Link Phase 1  
Environmental Analysis**

- |                     |                          |
|---------------------|--------------------------|
| <b>Segment</b>      | — Interstate             |
|                     | — State Highway          |
|                     | - - - County Boundary    |
|                     | Likely to Occur          |
|                     | Unlikely to Occur        |
| <b>Data Sources</b> |                          |
|                     | • CNDDDB                 |
|                     | • CWHR Predicted Habitat |
|                     | • CWHR Species Range     |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.

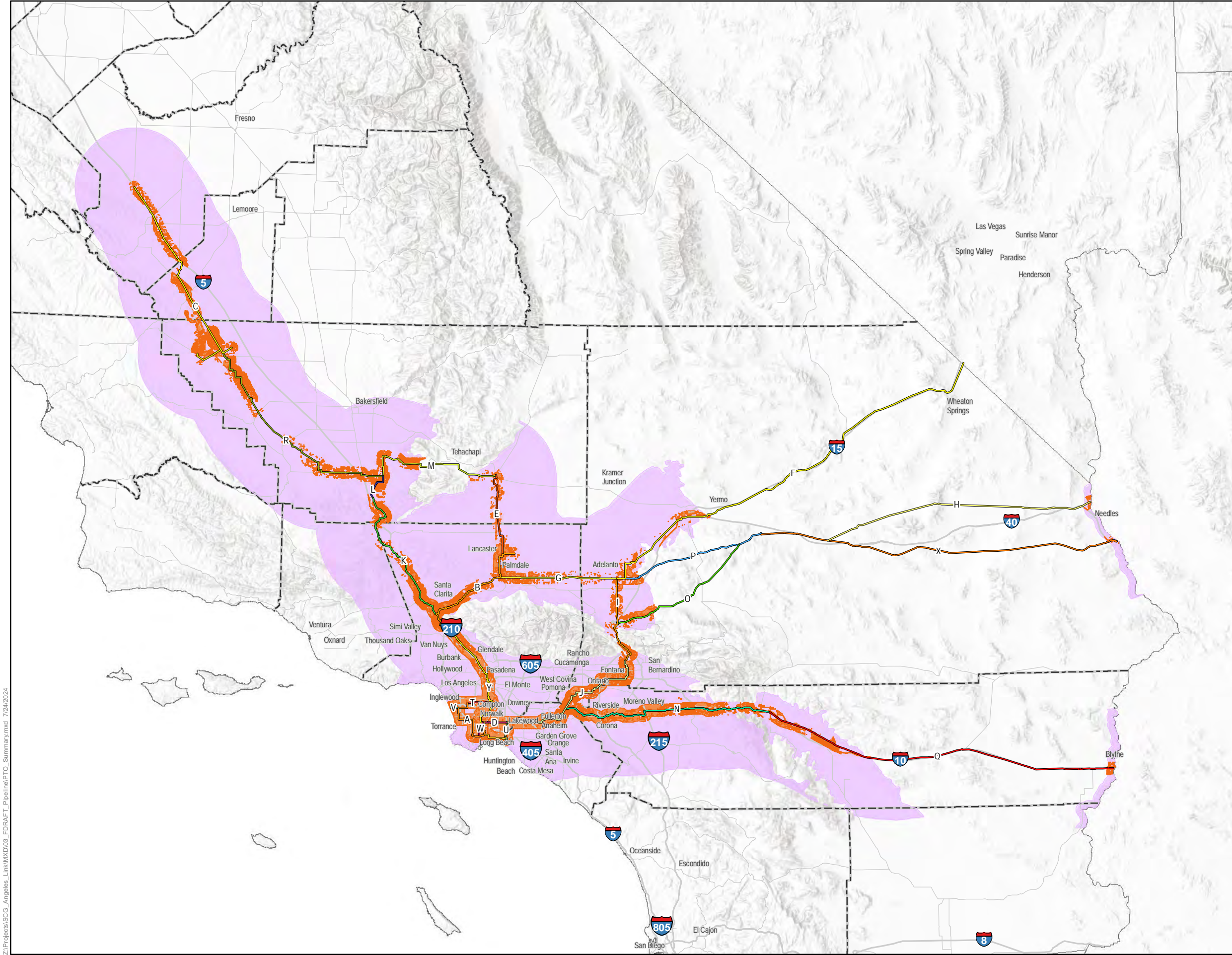
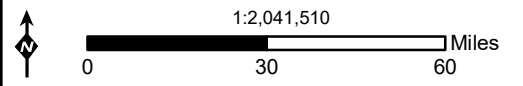


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
White-tailed Kite**

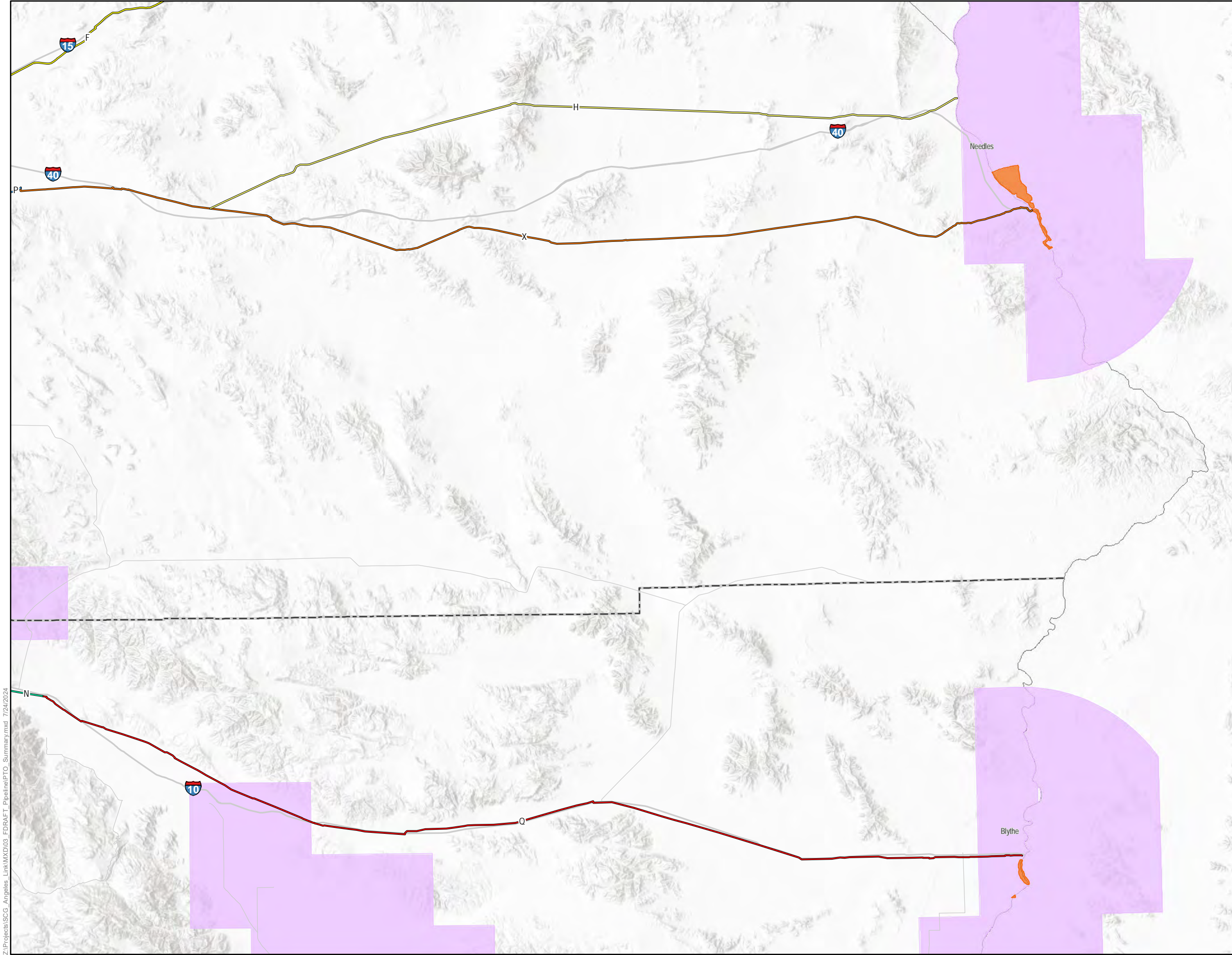
**Angeles Link Phase 1  
Environmental Analysis**

- |                |                             |
|----------------|-----------------------------|
| <b>Segment</b> | — Interstate                |
|                | — State Highway             |
|                | - - - County Boundary       |
| — A            | Orange Shaded Area          |
| — B            | Purple Shaded Area          |
| — C            | Light Purple Shaded Area    |
| — D            | Dark Purple Shaded Area     |
| — E            | Lightest Purple Shaded Area |
| — F            | • CNDDDB                    |
| — G            | • CWHR Predicted Habitat    |
| — H            | • CWHR Species Range        |
| — I            |                             |
| — J            |                             |
| — K            |                             |
| — L            |                             |
| — M            |                             |
| — N            |                             |
| — O            |                             |
| — P            |                             |
| — Q            |                             |
| — R            |                             |
| — S            |                             |
| — T            |                             |
| — U            |                             |
| — V            |                             |
| — W            |                             |
| — X            |                             |
| — Y            |                             |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



Z:\Projects\SCG\_Angelies\_Link\MXDI03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024

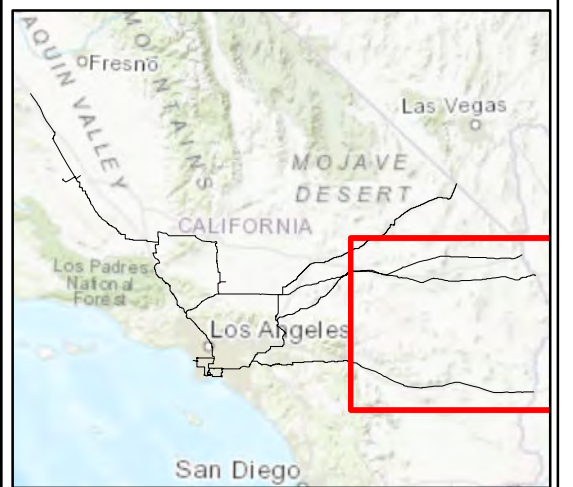


**Attachment B-4:  
Protected Species Likelihood Occurrence Map  
Yuma Ridgway's Rail**

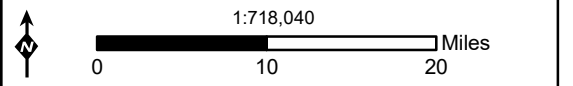
**Angeles Link Phase 1  
Environmental Analysis**

- |                |                       |
|----------------|-----------------------|
| <b>Segment</b> | — Interstate          |
| F              | — State Highway       |
| H              | - - - County Boundary |
| N              | ■ Likely to Occur     |
| P              | ■ Unlikely to Occur   |
| Q              | <b>Data Sources</b>   |
| X              | • CNDDDB              |
|                | • USFWS ECOS          |

Note: To optimize efficiency, CWHR Predicted Habitat and CNDDDB data were clipped to 2-mile and 5-mile buffers, respectively. All other species sources were uniformly clipped to a 20-mile buffer.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\PTO\_Summary.mxd 7/24/2024













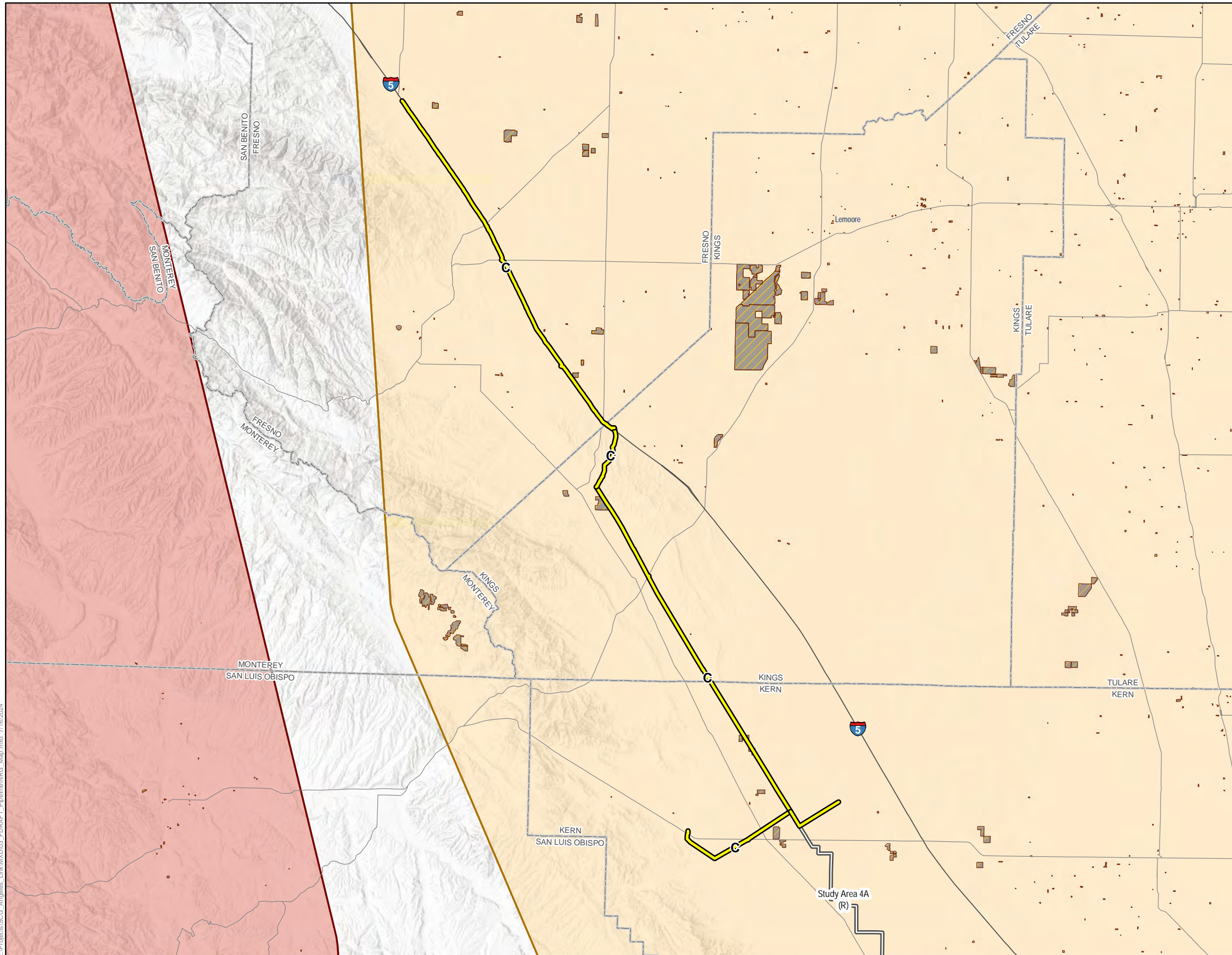


**ATTACHMENT C: ENERGY RESOURCES MAPS**



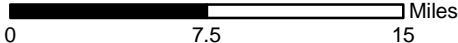

**Attachment C: Energy Resources Maps  
Study Area 1A**

**Angeles Link Phase 1  
Environmental Analysis**

-  Interstate
  -  State Highway
  -  County Boundary
  -  Approved or In-Progress Photovoltaic Solar Facilities
- California Energy Commission Solar Resource Area**
-  San Luis Obispo
  -  South Central Valley
- Segment**
-  C
  -  Adjacent/Other Study Area Visible

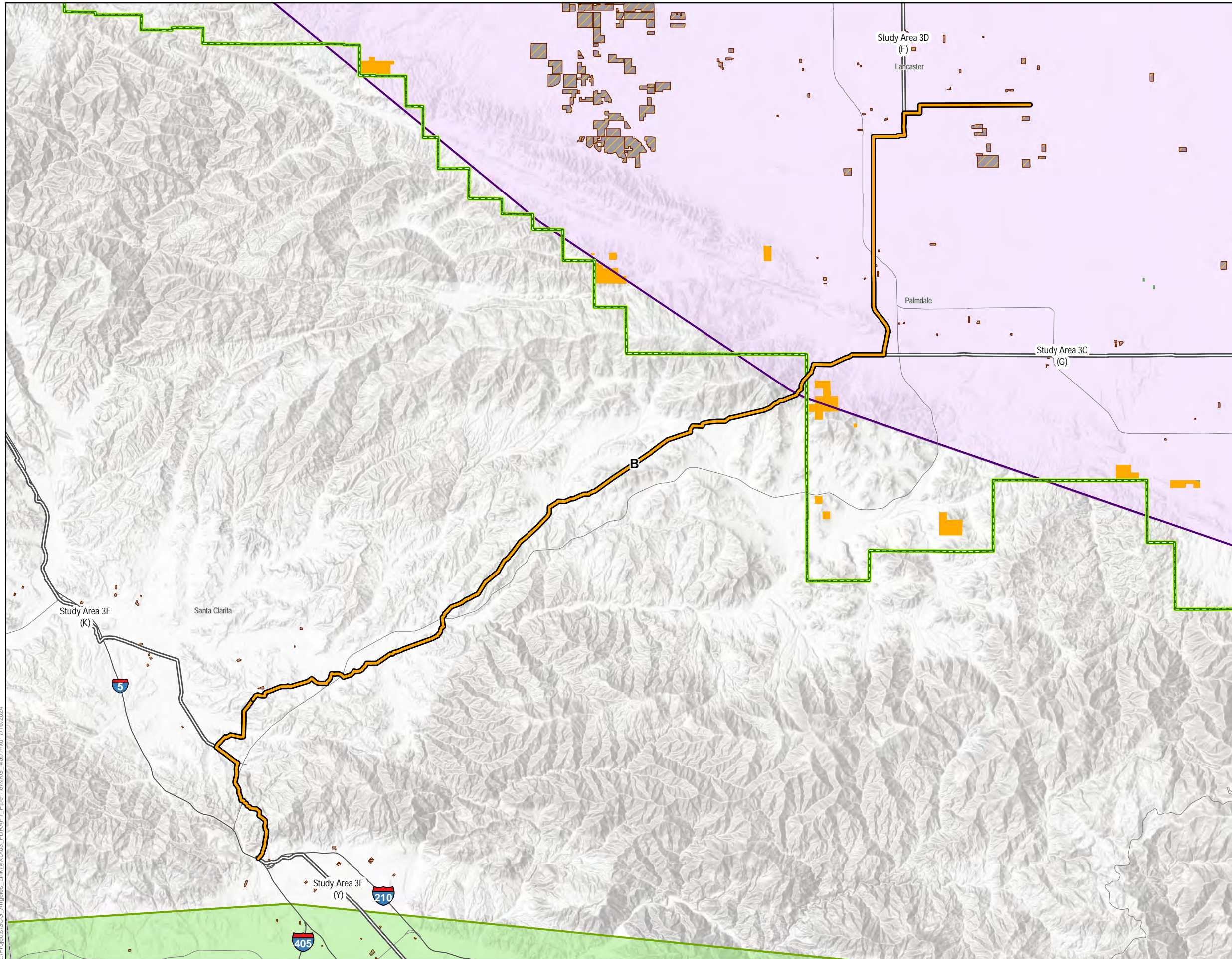




1:464,000

**Attachment C: Energy Resources Maps  
Study Area 1B**

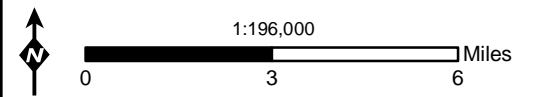
**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
- State Highway
- County Boundary
- Desert Renewable Energy Conservation Plan (DRECP) Planning Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- U.S. Bureau of Land Management - DRECP Land Use Designations**
- Development Focus Areas
- General Public Lands
- California Energy Commission Solar Resource Area**
- Los Angeles Metro
- Tehachapi
- Segment**
- B
- Adjacent/Other Study Area Visible



**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL

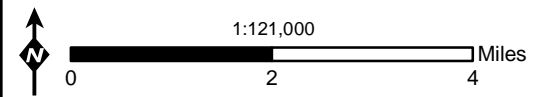
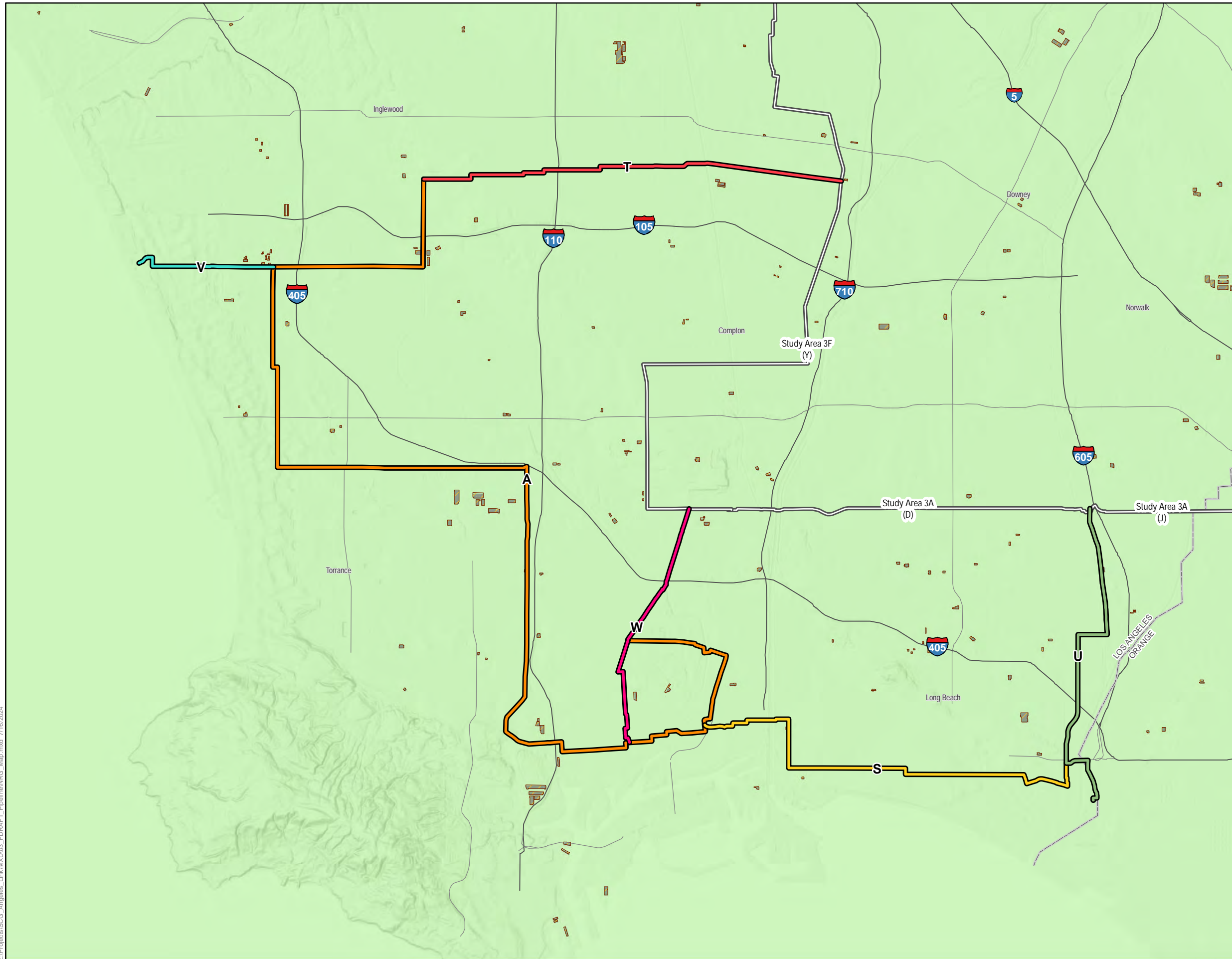


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\NRG\_Map.mxd 7/16/2024

Attachment C: Energy Resources Maps  
Study Area 2

Angeles Link Phase 1  
Environmental Analysis

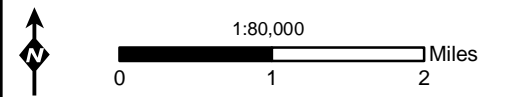
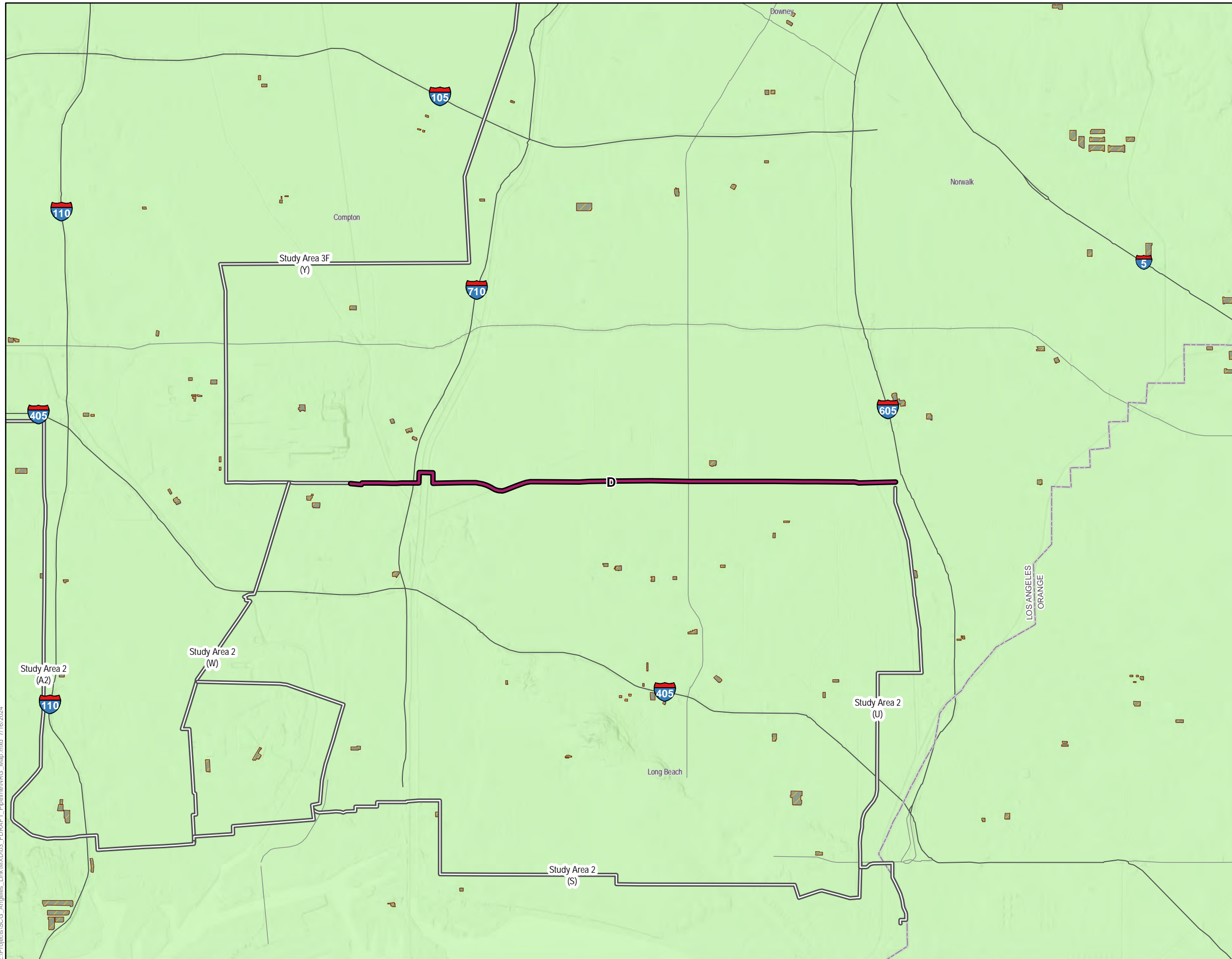
- Interstate
- State Highway
- County Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- California Energy Commission Solar Resource Area
  - Los Angeles Metro
- Segment
  - A
  - S
  - T
  - U
  - V
  - W
- Adjacent/Other Study Area Visible



Attachment C: Energy Resources Maps  
Study Area 3A

Angeles Link Phase 1  
Environmental Analysis

- Interstate
- State Highway
- County Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- California Energy Commission Solar Resource Area
  - Los Angeles Metro
- Segment
  - D
  - Adjacent/Other Study Area Visible

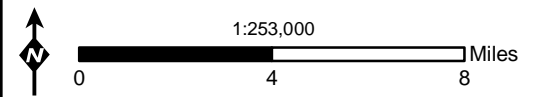
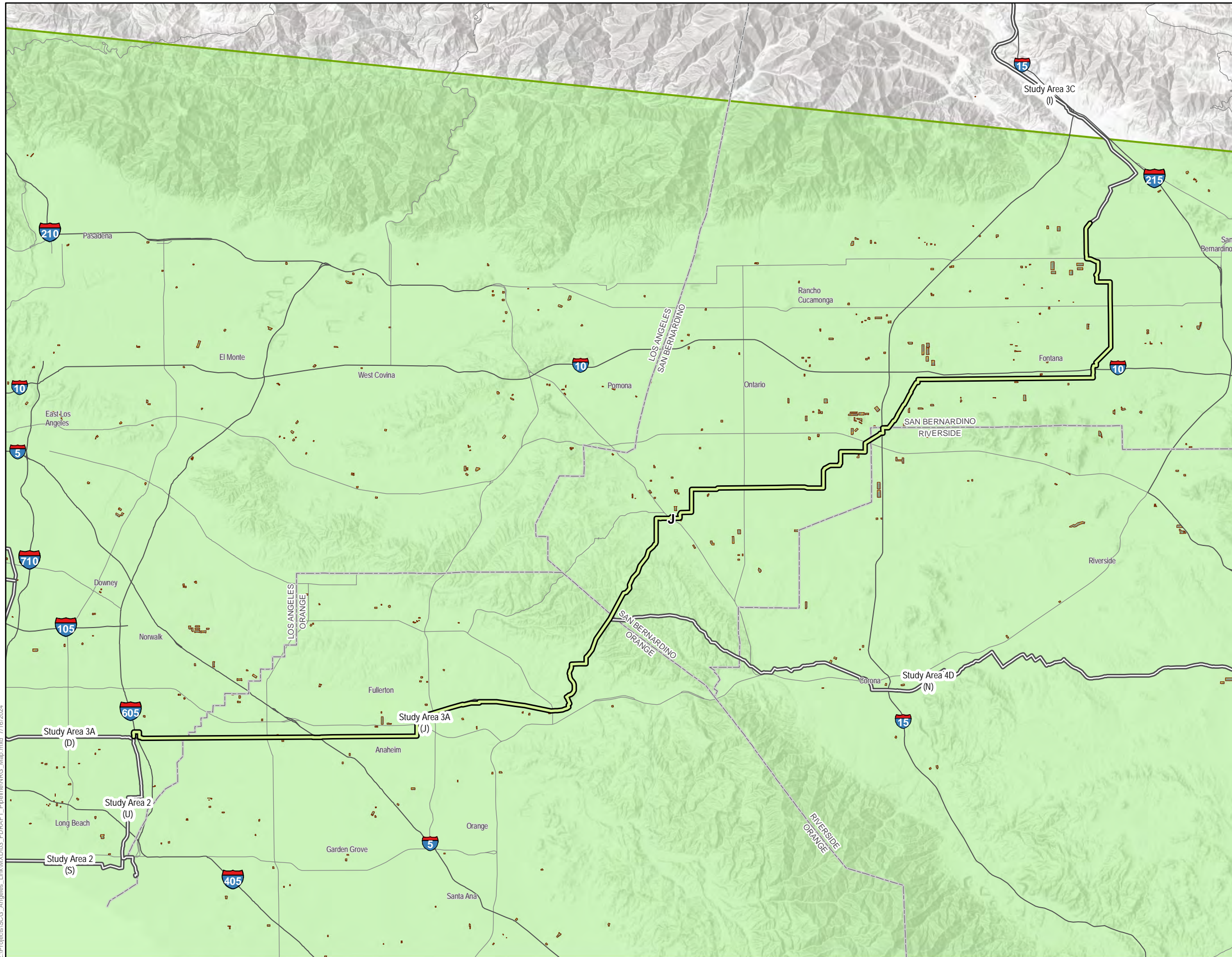


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\NRG\_Map.mxd 7/16/2024

Attachment C: Energy Resources Maps  
Study Area 3B

Anges Link Phase 1  
Environmental Analysis

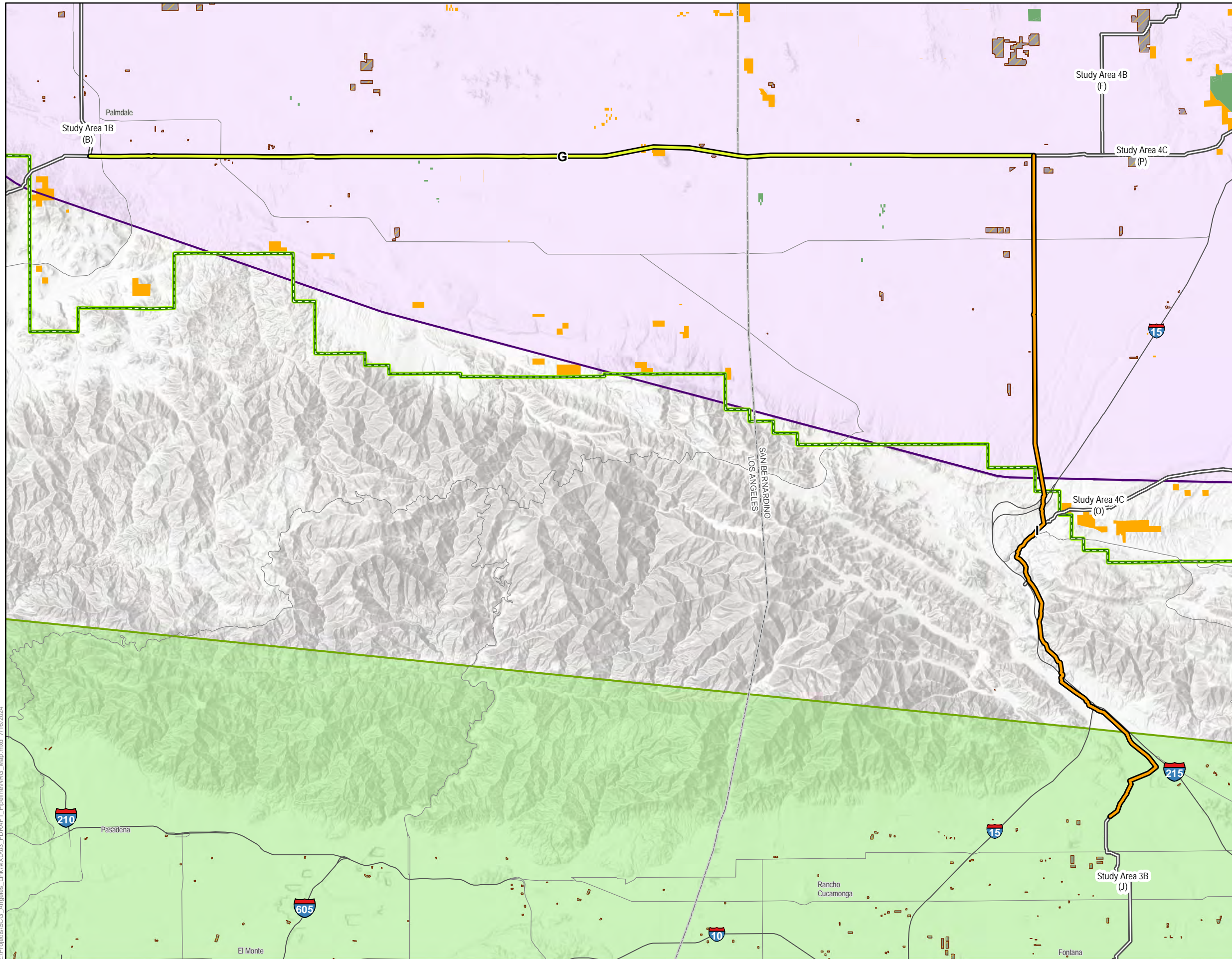
- Interstate
- State Highway
- County Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- California Energy Commission Solar Resource Area
  - Los Angeles Metro
- Segment
  - J
  - Adjacent/Other Study Area Visible



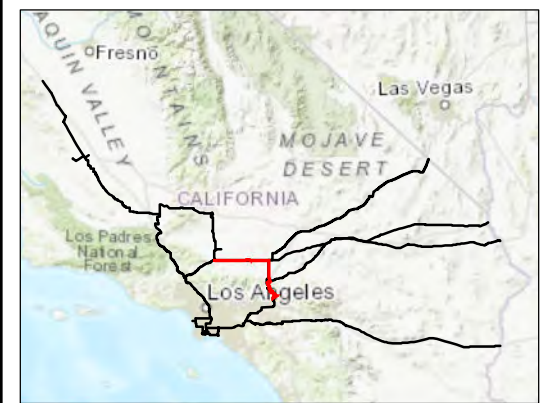
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\NRG\_Map.mxd 7/16/2024



**Attachment C: Energy Resources Maps  
Study Area 3C**


**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
- State Highway
- County Boundary
- Desert Renewable Energy Conservation Plan (DRECP) Planning Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- U.S. Bureau of Land Management - DRECP Land Use Designations**
- Development Focus Areas
- General Public Lands
- California Energy Commission Solar Resource Area**
- Los Angeles Metro
- Tehachapi
- Segment**
- G
- I
- Adjacent/Other Study Area Visible



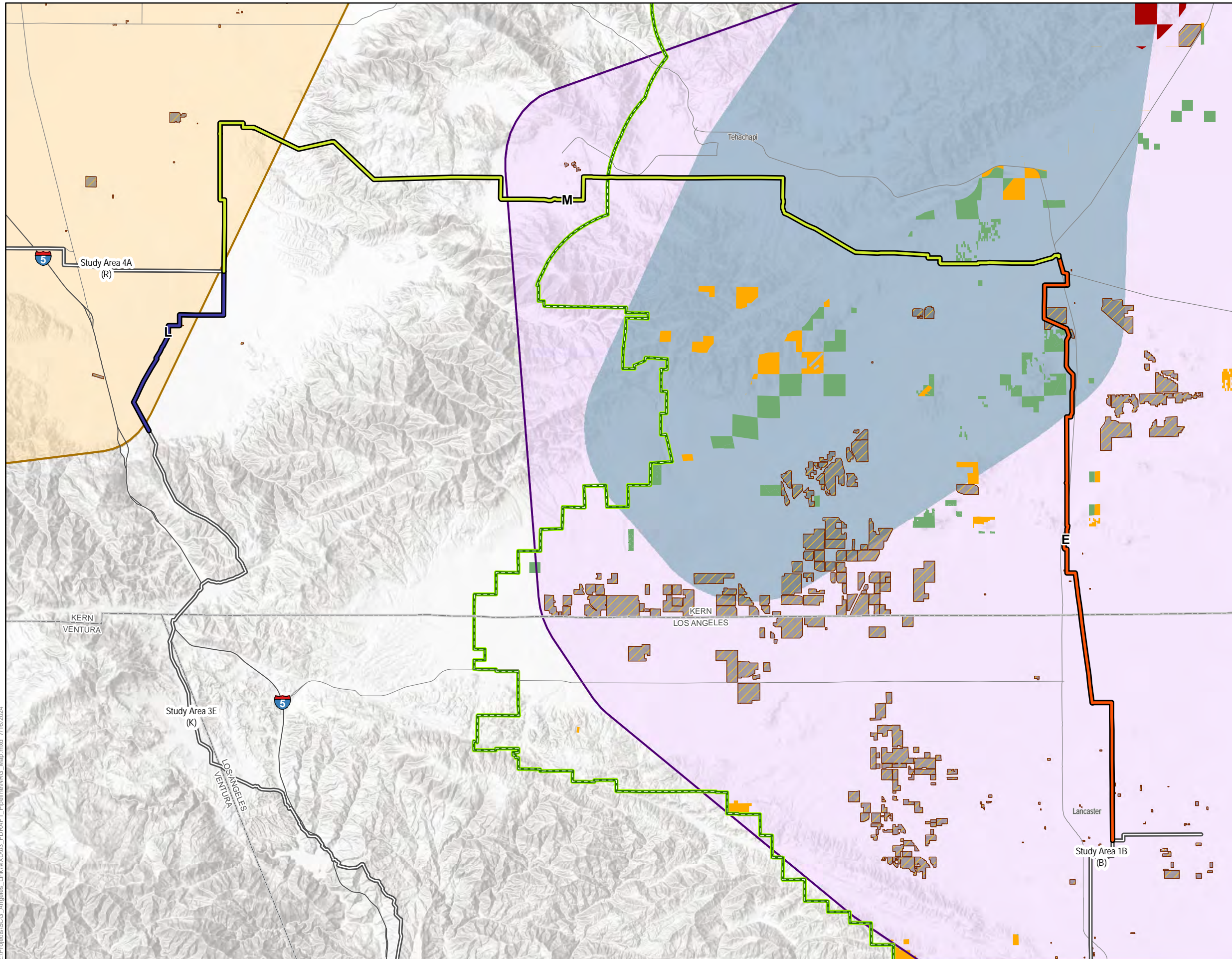

1:253,000  
0 4 8 Miles

Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\NRG\_Map.mxd 7/16/2024



**Attachment C: Energy Resources Maps  
Study Area 3D**

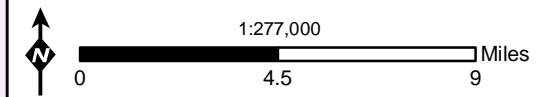
**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
- State Highway
- County Boundary
- Desert Renewable Energy Conservation Plan (DRECP) Planning Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- U.S. Bureau of Land Management - DRECP Land Use Designations**
- Development Focus Areas
- Variance Process Lands
- General Public Lands
- California Energy Commission Wind Resource Areas**
- Tehachapi
- California Energy Commission Solar Resource Area**
- South Central Valley
- Tehachapi
- Segment**
- E
- L
- M
- Adjacent/Other Study Area Visible



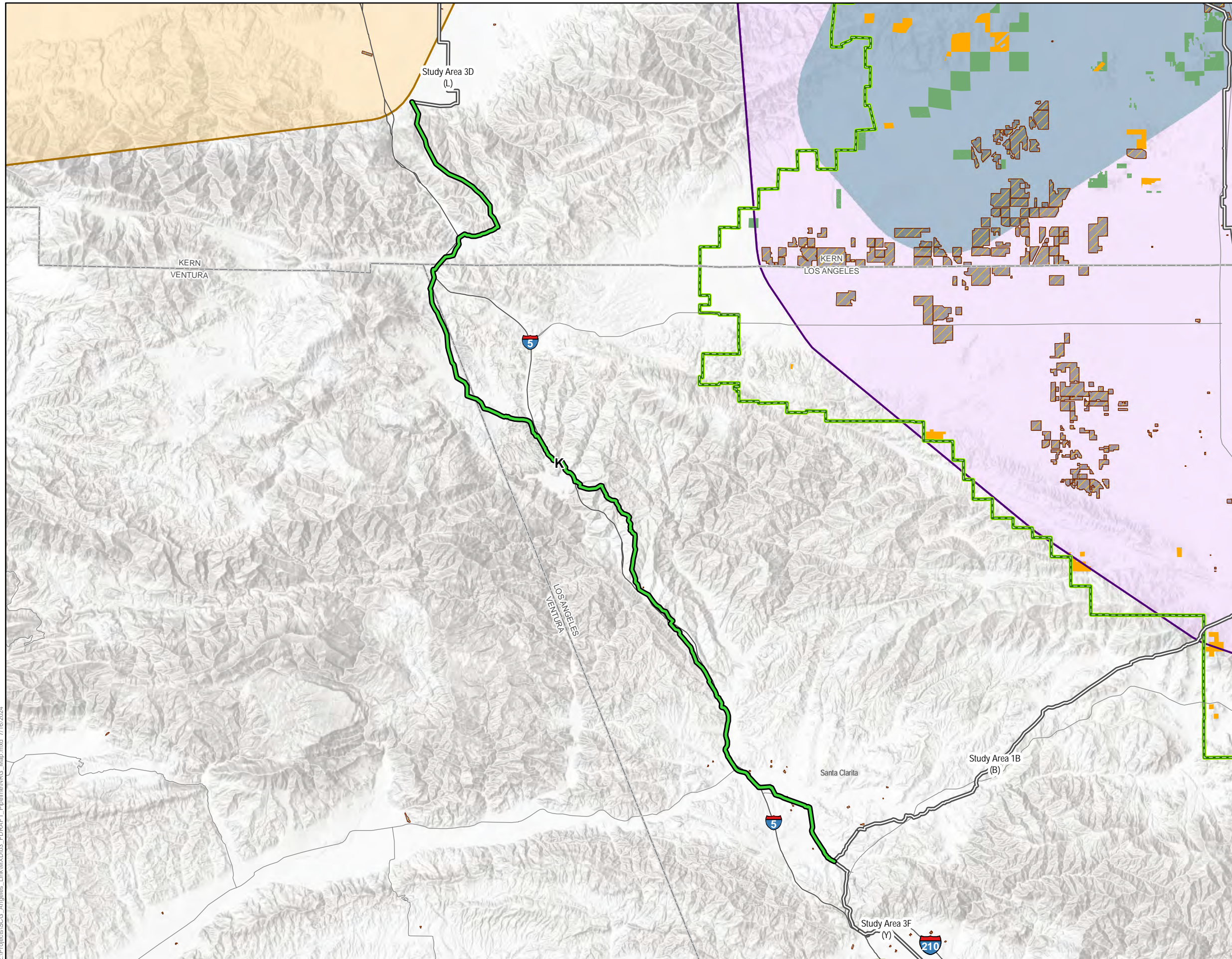
**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\NRG\_Map.mxd 7/16/2024

**Attachment C: Energy Resources Maps  
Study Area 3E**

**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
- State Highway
- County Boundary
- Desert Renewable Energy Conservation Plan (DRECP) Planning Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- U.S. Bureau of Land Management - DRECP Land Use Designations**
- Development Focus Areas
- General Public Lands
- California Energy Commission Wind Resource Areas**
- Tehachapi
- California Energy Commission Solar Resource Area**
- Los Angeles Metro
- South Central Valley
- Tehachapi
- Segment**
- K
- Adjacent/Other Study Area Visible










1:313,000

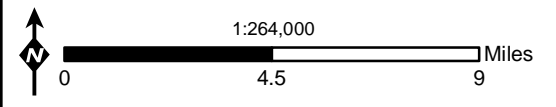
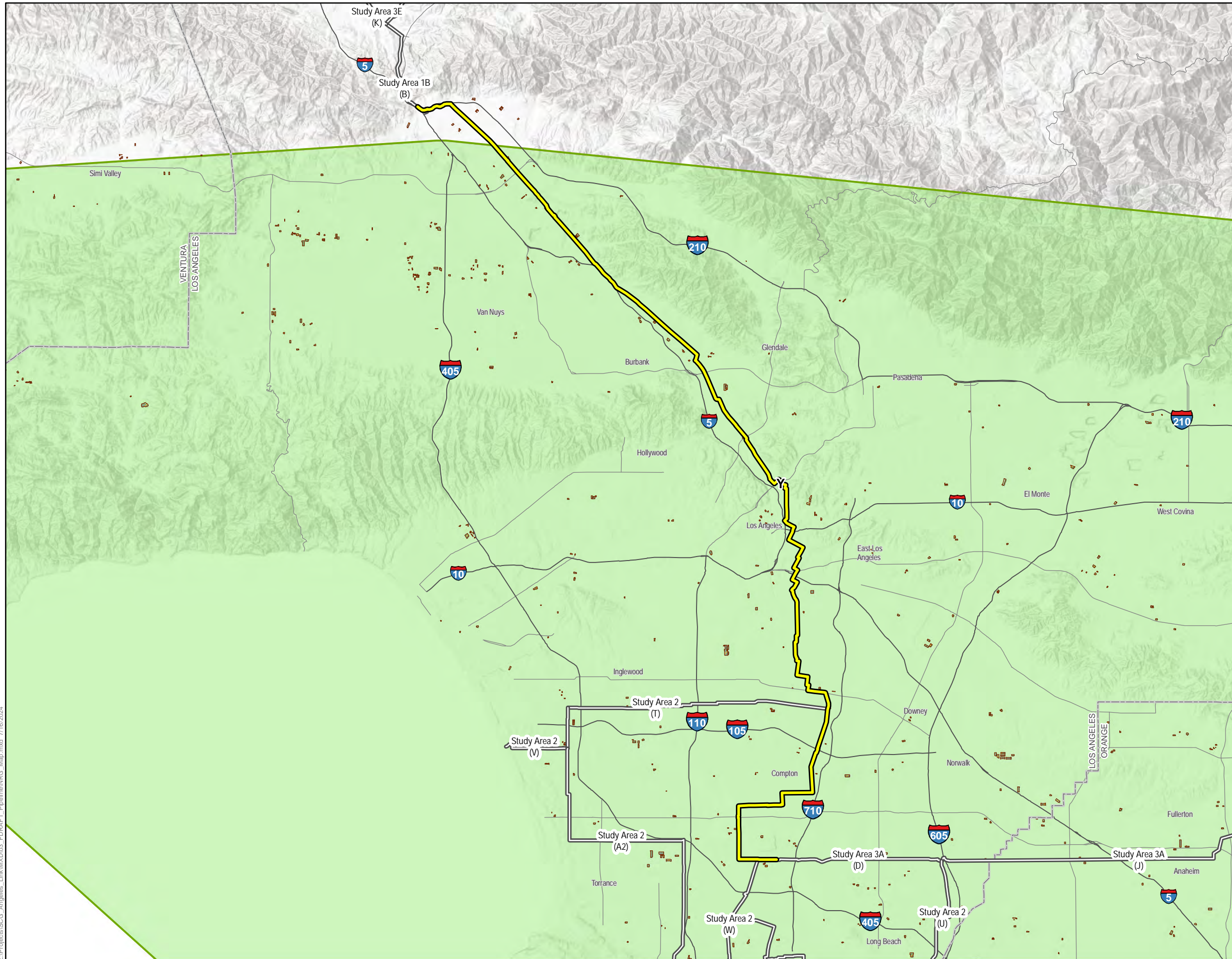
0 5 10 Miles

Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\NRG\_Map.mxd 7/16/2024

**Attachment C: Energy Resources Maps  
Study Area 3F**

**Angeles Link Phase 1  
Environmental Analysis**

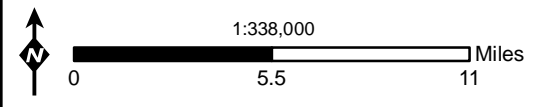
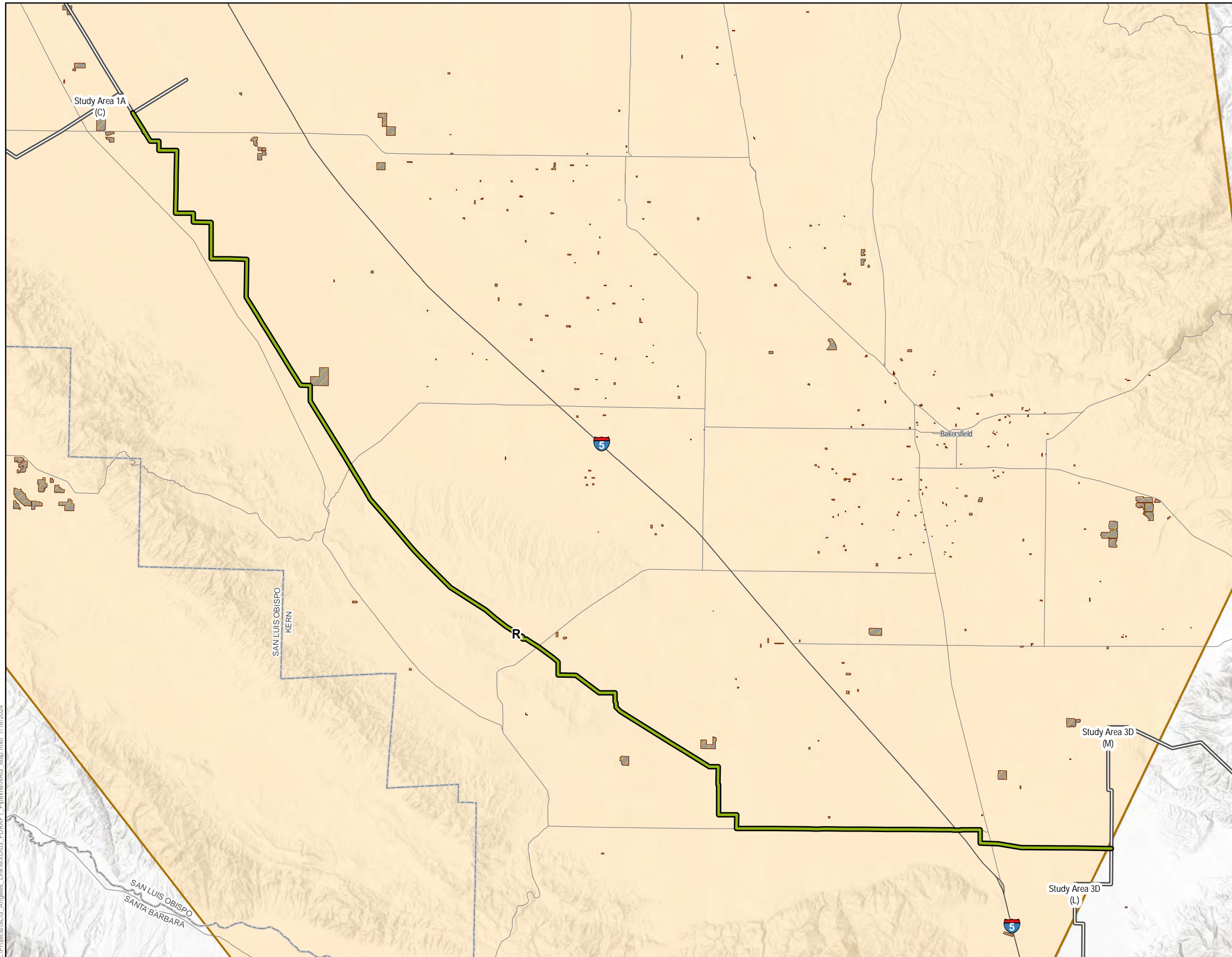
-  Interstate
-  State Highway
-  County Boundary
-  Approved or In-Progress Photovoltaic Solar Facilities
- California Energy Commission Solar Resource Area**
-  Los Angeles Metro
- Segment**
-  Y
-  Adjacent/Other Study Area Visible



Attachment C: Energy Resources Maps  
Study Area 4A

Angeles Link Phase 1  
Environmental Analysis

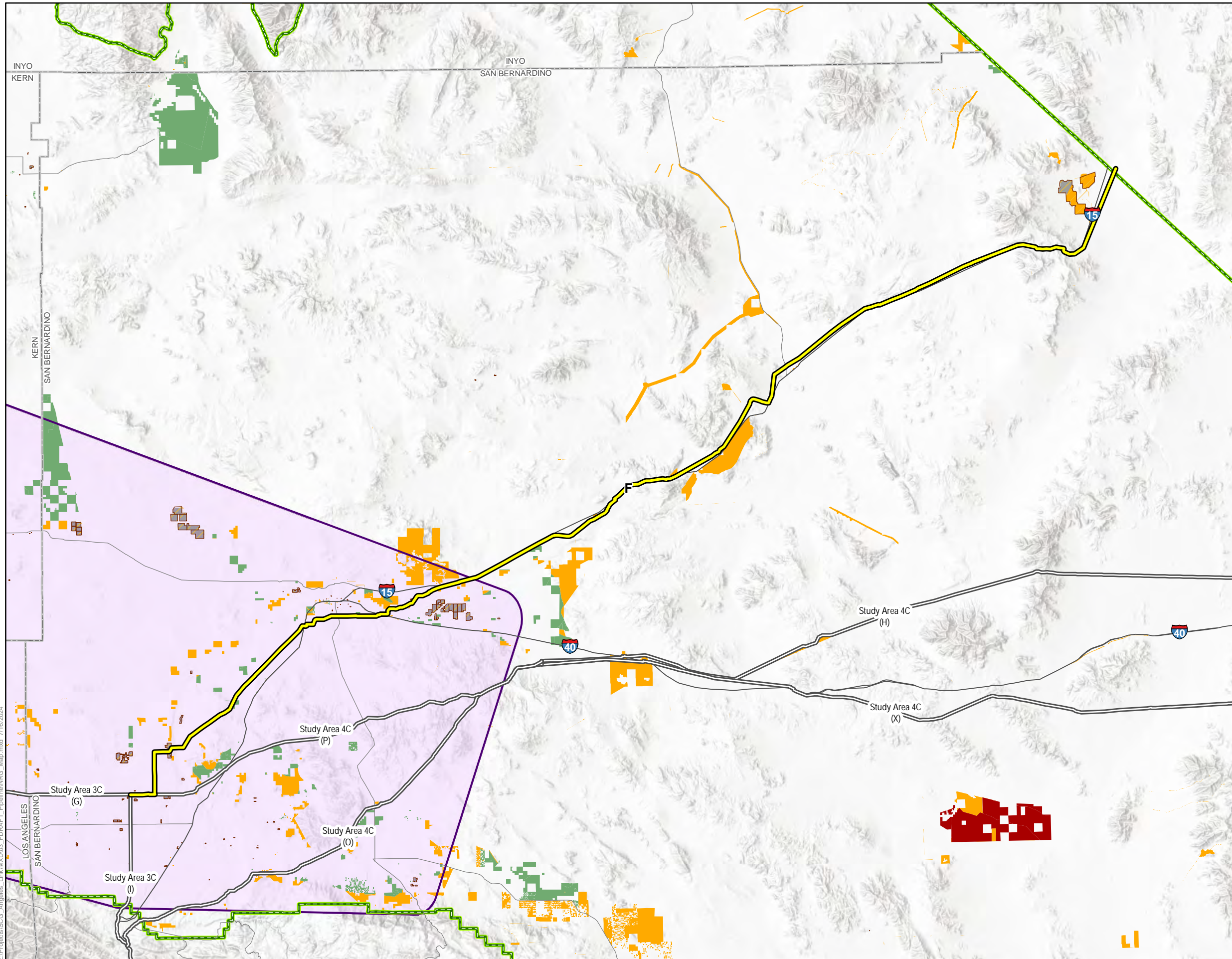
- Interstate
- State Highway
- County Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- California Energy Commission Solar Resource Area
  - South Central Valley
- Segment
  - R
  - Adjacent/Other Study Area Visible



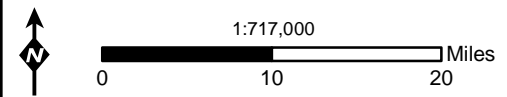
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\NRG\_Map.mxd 7/16/2024

**Attachment C: Energy Resources Maps  
Study Area 4B**

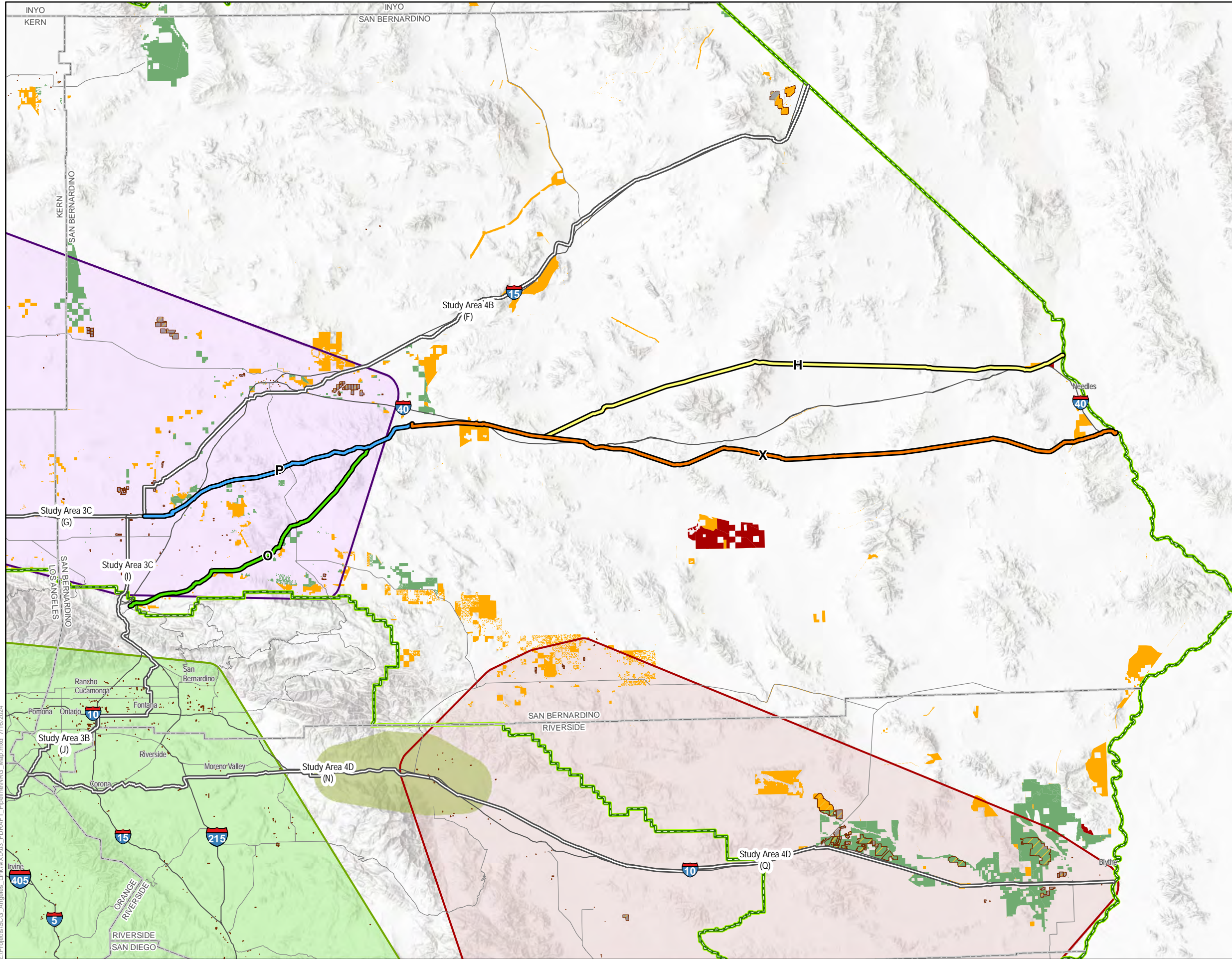
**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
- State Highway
- County Boundary
- Desert Renewable Energy Conservation Plan (DRECP) Planning Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- U.S. Bureau of Land Management - DRECP Land Use Designations**
- Development Focus Areas
- Variance Process Lands
- General Public Lands
- California Energy Commission Solar Resource Area**
- Tehachapi
- Segment**
- F
- Adjacent/Other Study Area Visible



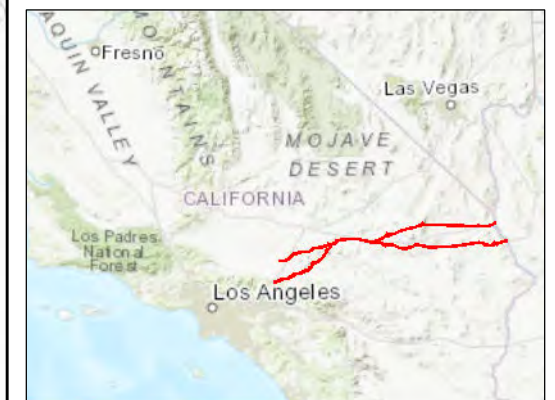
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\NRG\_Map.mxd 7/16/2024



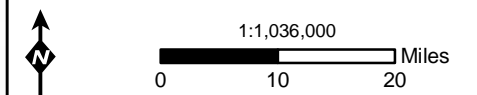
**Attachment C: Energy Resources Maps  
Study Area 4C**

**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- County Boundary
- Desert Renewable Energy Conservation Plan (DRECP) Planning Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- U.S. Bureau of Land Management - DRECP Land Use Designations**
- Development Focus Areas
- Variance Process Lands
- General Public Lands
- California Energy Commission Wind Resource Areas**
- San Gorgonio
- California Energy Commission Solar Resource Area**
- Imperial
- Los Angeles Metro
- Tehachapi
- Segment**
- H
- O
- P
- X
- Adjacent/Other Study Area Visible

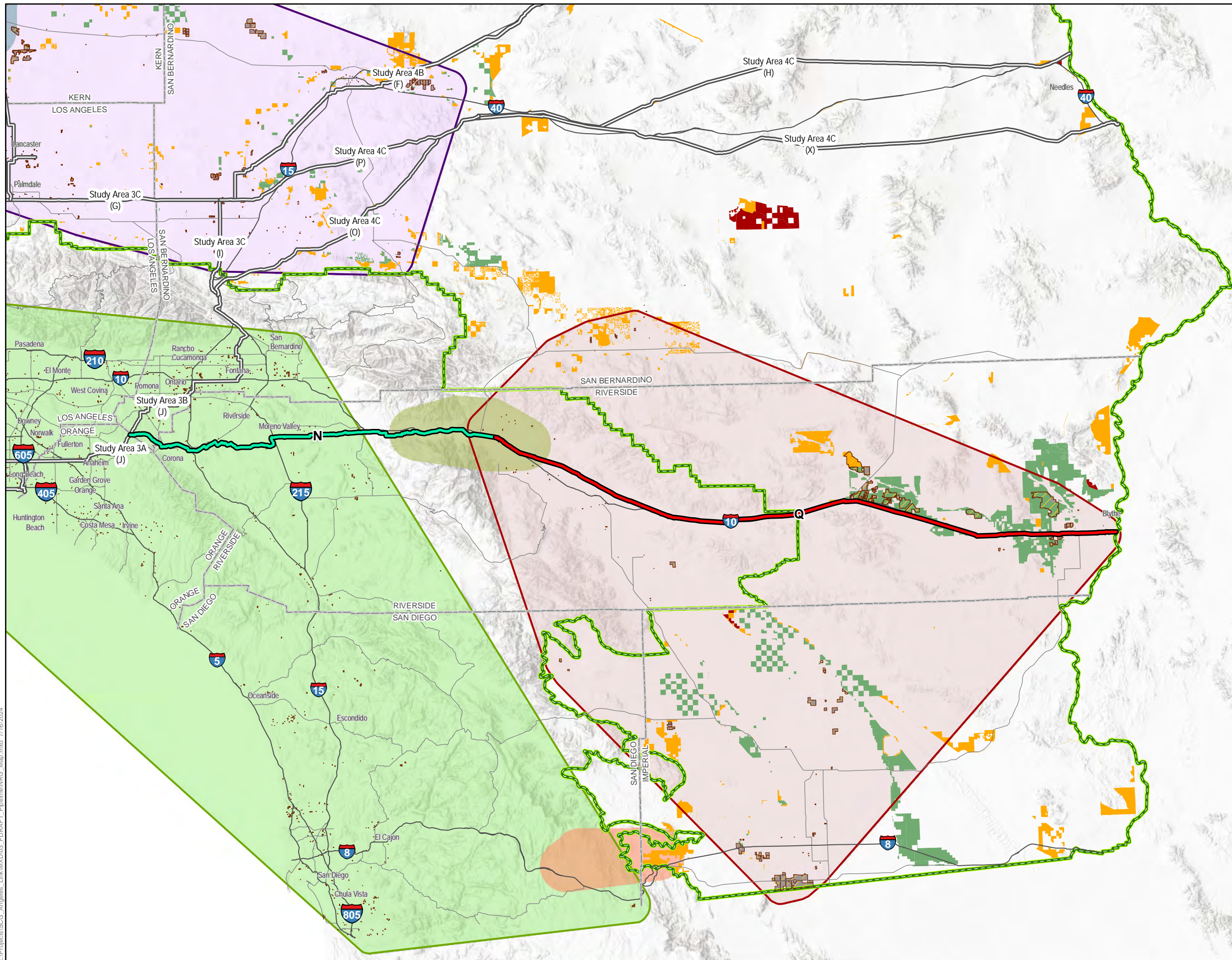


**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL





**Attachment C: Energy Resources Maps  
Study Area 4D**


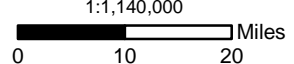
**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
- State Highway
- County Boundary
- Desert Renewable Energy Conservation Plan (DRECP) Planning Boundary
- Approved or In-Progress Photovoltaic Solar Facilities
- U.S. Bureau of Land Management - DRECP Land Use Designations**
- Development Focus Areas
- Variance Process Lands
- General Public Lands
- California Energy Commission Wind Resource Areas**
- East San Diego
- San Geronio
- Tehachapi
- California Energy Commission Solar Resource Area**
- Imperial
- Los Angeles Metro
- Tehachapi
- Segment**
- N
- Q
- Adjacent/Other Study Area Visible


















**ATTACHMENT D: COMMUNITY FACILITIES AND FEATURES**



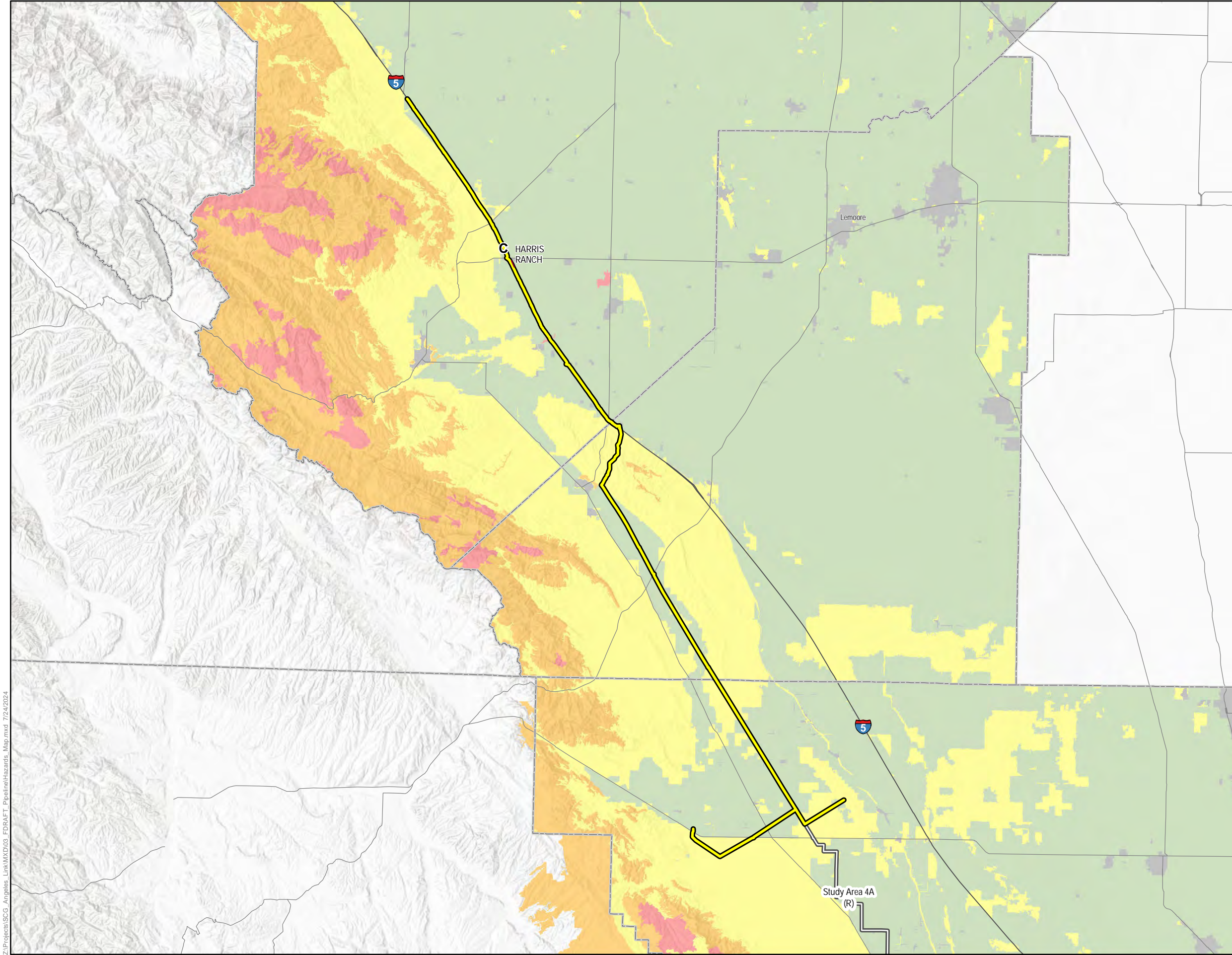
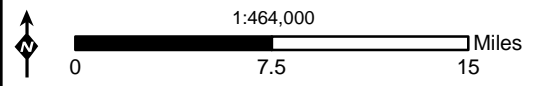
**Attachment D:  
Community Facilities and Features  
Study Area 1A**

**Angeles Link Phase 1  
Environmental Analysis**

-  Runway (Two-Mile)
-  Interstate
-  State Highway
-  County Boundary
- Segment**
-  C
-  Adjacent/Other Study Area Visible
- Fire Hazard Severity**
-  Very High
-  High
-  Moderate
-  Non-Wildland/Non-Urban
-  Urban Unzoned

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

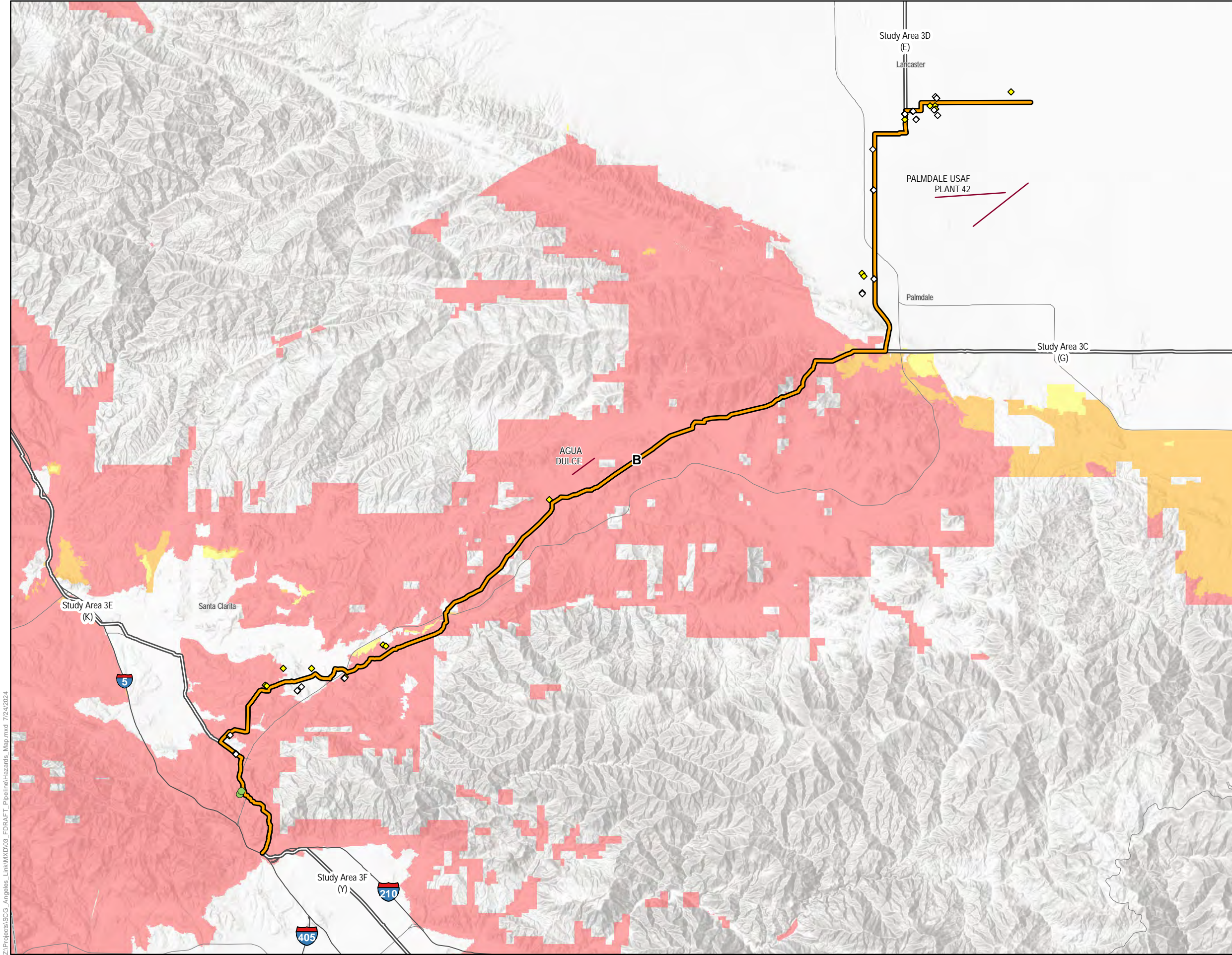
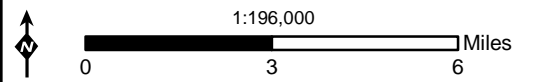
**Attachment D:  
Community Facilities and Features  
Study Area 1B**

**Angeles Link Phase 1  
Environmental Analysis**

- ◆ School (Half-Mile)
  - ◇ Day-Care Center (Half-Mile)
  - Hazardous Materials Site - Open Case (1,000 feet)
  - Runway (Two-Mile)
  - Interstate
  - State Highway
  - County Boundary
- Segment**
- B B
  - Adjacent/Other Study Area Visible
- Fire Hazard Severity**
- Very High
  - High
  - Moderate

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angeles\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

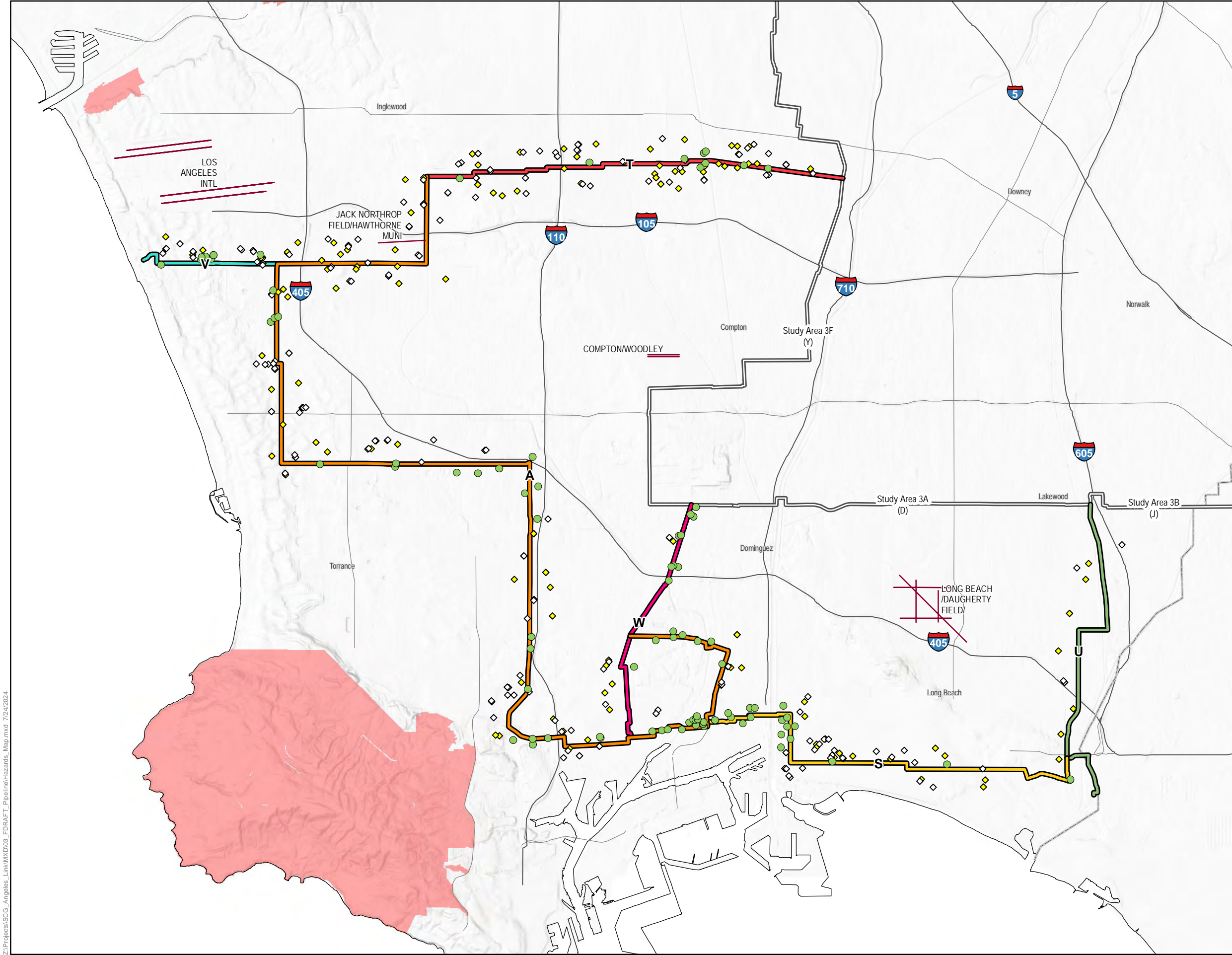
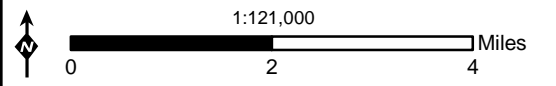
**Attachment D:  
Community Facilities and Features  
Study Area 2**

**Angeles Link Phase 1  
Environmental Analysis**

- ◆ School (Half-Mile)
  - ◇ Day-Care Center (Half-Mile)
  - Hazardous Materials Site - Open Case (1,000 feet)
  - Runway (Two-Mile)
  - Interstate
  - State Highway
  - County Boundary
- Segment**
- A
  - S
  - T
  - U
  - V
  - W
- Adjacent/Other Study Area Visible
- Fire Hazard Severity**
- Very High

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

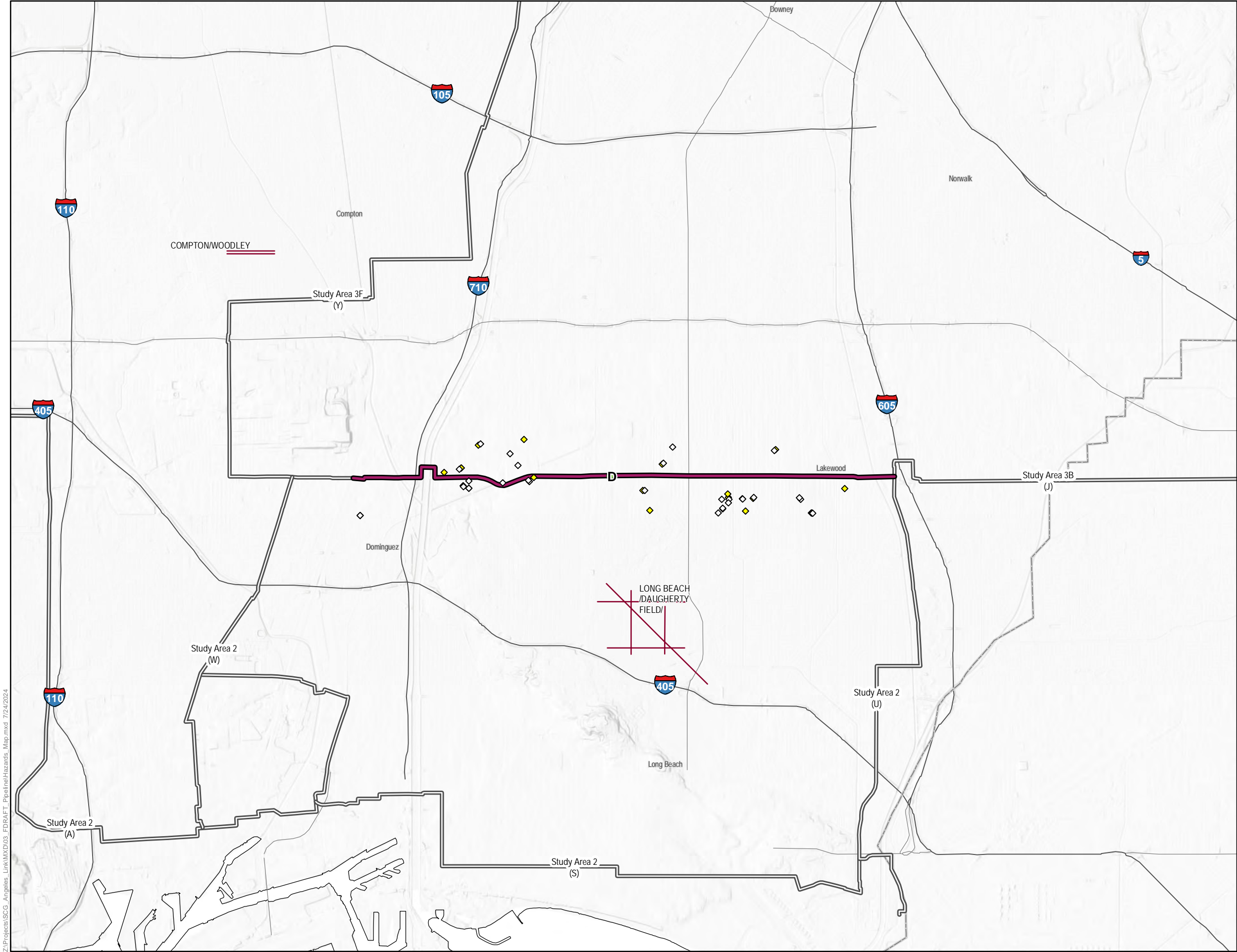
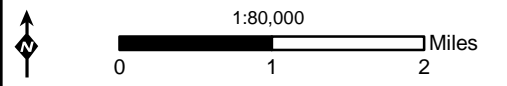
**Attachment D:  
Community Facilities and Features  
Study Area 3A**

**Angeles Link Phase 1  
Environmental Analysis**

- ◆ School (Half-Mile)
  - ◇ Day-Care Center (Half-Mile)
  - Hazardous Materials Site - Open Case (1,000 feet)
  - Runway (Two-Mile)
  - Interstate
  - State Highway
  - County Boundary
- Segment**
- D
  - Adjacent/Other Study Area Visible

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

**Attachment D:  
Community Facilities and Features  
Study Area 3B**

**Angeles Link Phase 1  
Environmental Analysis**

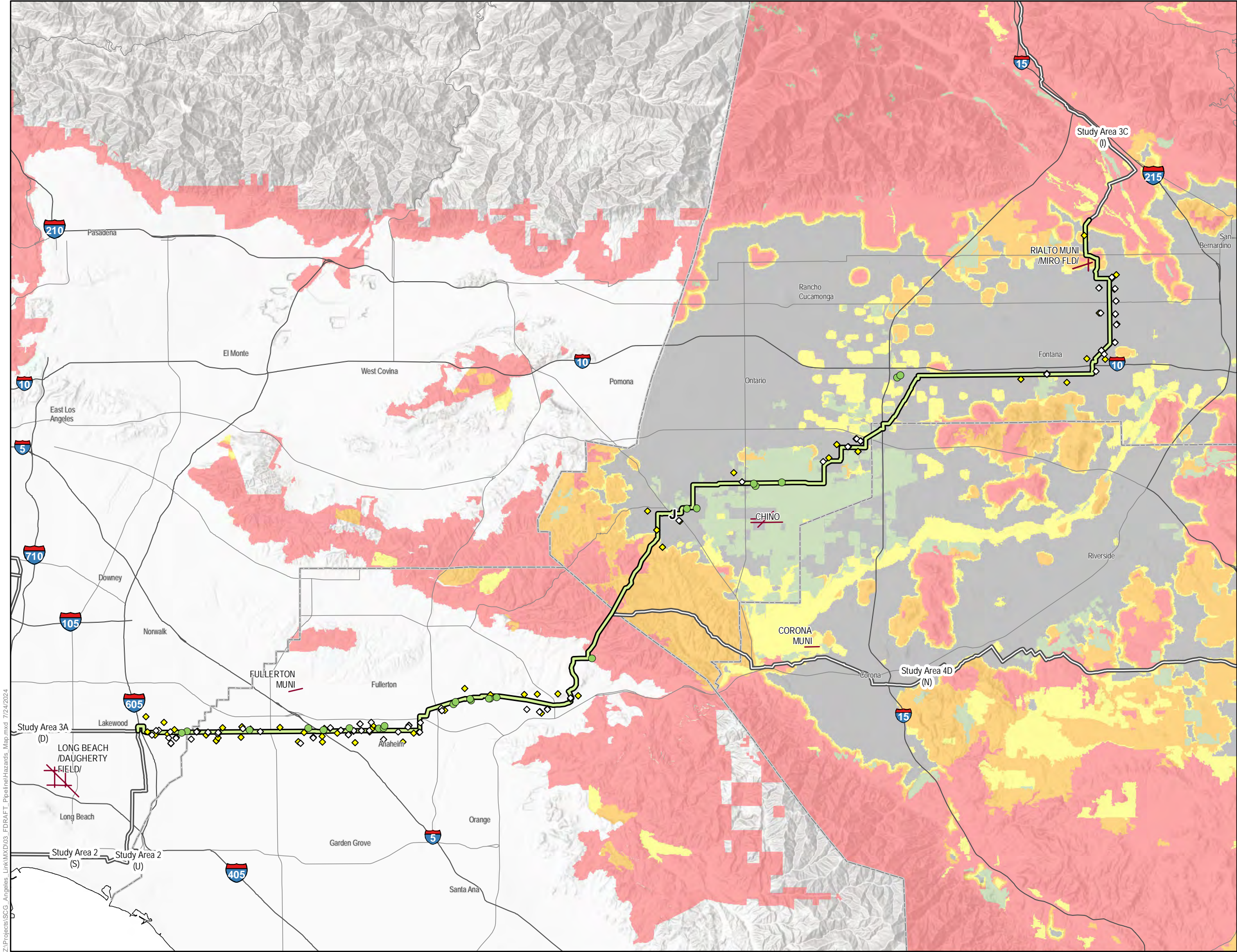
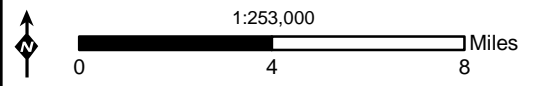
- ◆ School (Half-Mile)
- ◇ Day-Care Center (Half-Mile)
- Hazardous Materials Site - Open Case (1,000 feet)
- Runway (Two-Mile)
- Interstate
- State Highway
- County Boundary

- Segment**
- J
  - Adjacent/Other Study Area Visible

- Fire Hazard Severity**
- Very High
  - High
  - Moderate
  - Non-Wildland/Non-Urban
  - Urban Unzoned

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\Map\Hazards\_Map.mxd 7/24/2024

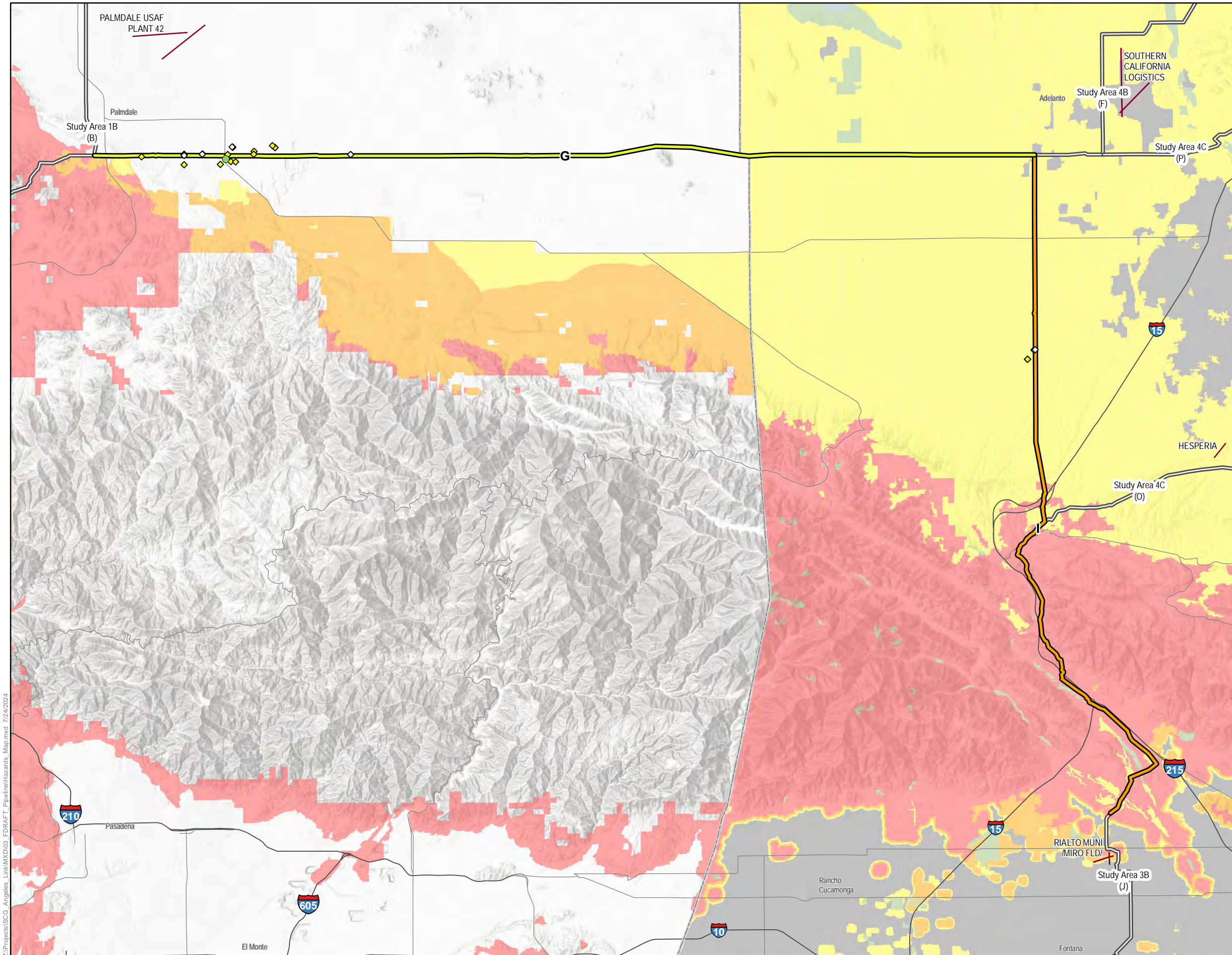
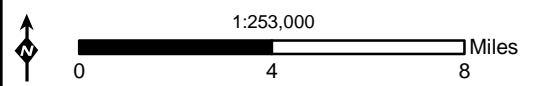
**Attachment D:  
Community Facilities and Features  
Study Area 3C**

**Angeles Link Phase 1  
Environmental Analysis**

- ◆ School (Half-Mile)
  - ◇ Day-Care Center (Half-Mile)
  - Hazardous Materials Site - Open Case (1,000 feet)
  - Runway (Two-Mile)
  - Interstate
  - State Highway
  - County Boundary
- Segment**
- G
  - I
  - Adjacent/Other Study Area Visible
- Fire Hazard Severity**
- Very High
  - High
  - Moderate
  - Non-Wildland/Non-Urban
  - Urban Unzoned

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024



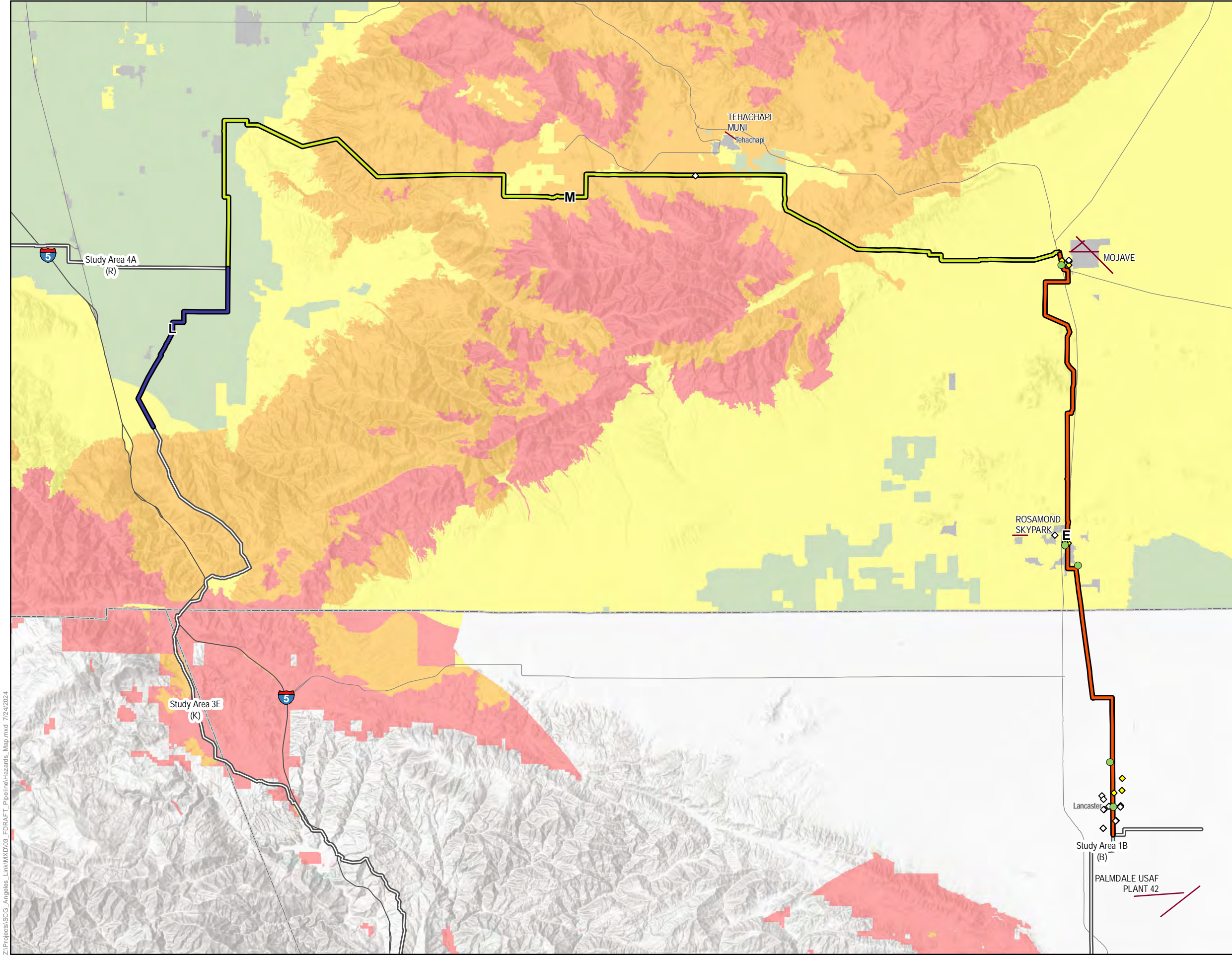
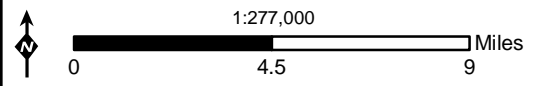
**Attachment D:  
Community Facilities and Features  
Study Area 3D**

**Angeles Link Phase 1  
Environmental Analysis**

- ◆ School (Half-Mile)
  - ◇ Day-Care Center (Half-Mile)
  - Hazardous Materials Site - Open Case (1,000 feet)
  - Runway (Two-Mile)
  - Interstate
  - State Highway
  - County Boundary
- Segment**
- E
  - L
  - M
- Adjacent/Other Study Area Visible
- Fire Hazard Severity**
- Very High
  - High
  - Moderate
  - Non-Wildland/Non-Urban
  - Urban Unzoned

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.















- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

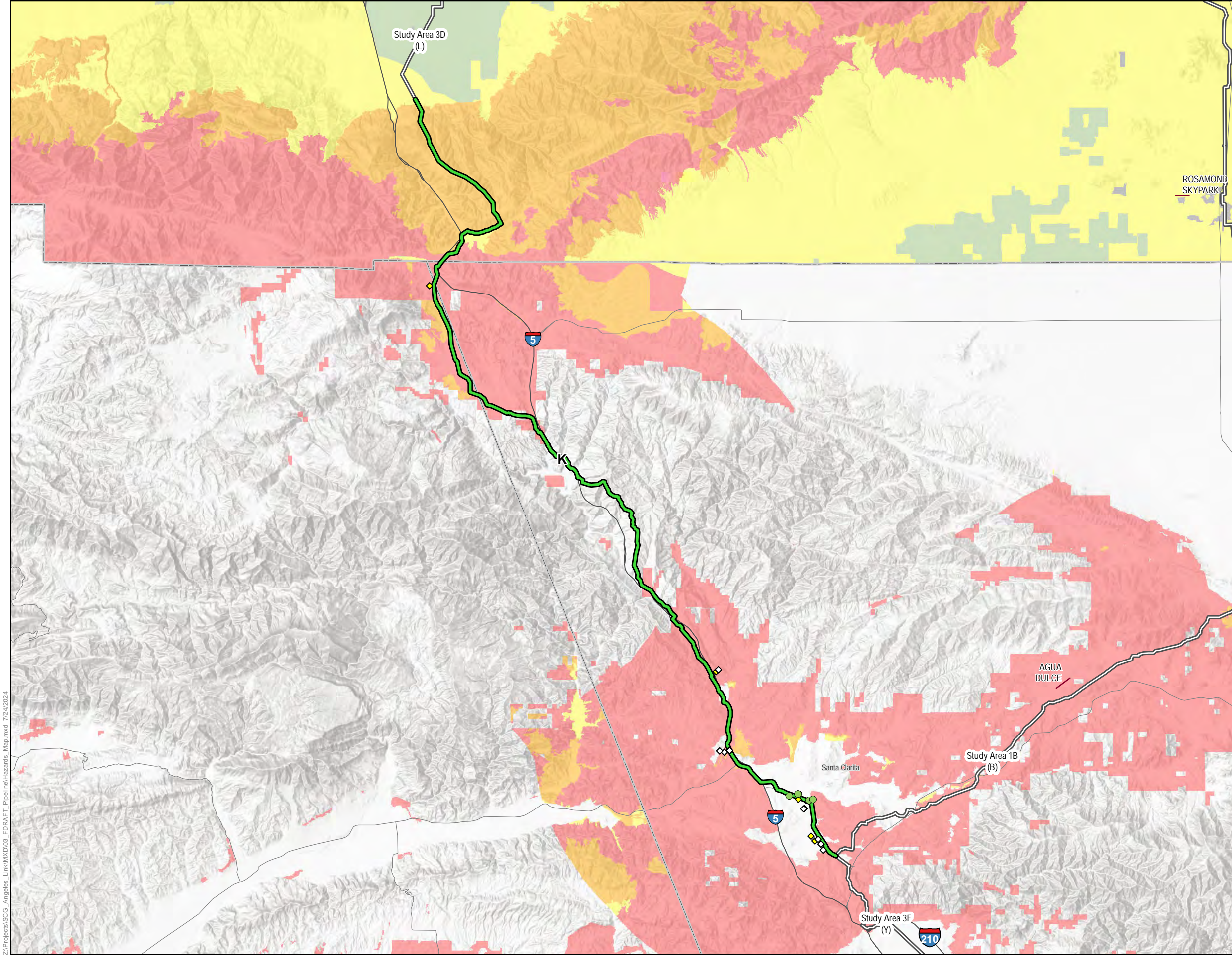
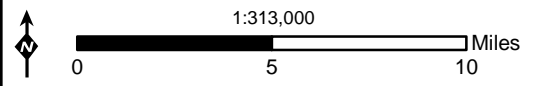
**Attachment D:  
Community Facilities and Features  
Study Area 3E**

**Angeles Link Phase 1  
Environmental Analysis**

-  School (Half-Mile)
-  Day-Care Center (Half-Mile)
-  Hazardous Materials Site - Open Case (1,000 feet)
-  Runway (Two-Mile)
-  Interstate
-  State Highway
-  County Boundary
- Segment**
-  K
-  Adjacent/Other Study Area Visible
- Fire Hazard Severity**
-  Very High
-  High
-  Moderate
-  Non-Wildland/Non-Urban
-  Urban Unzoned

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

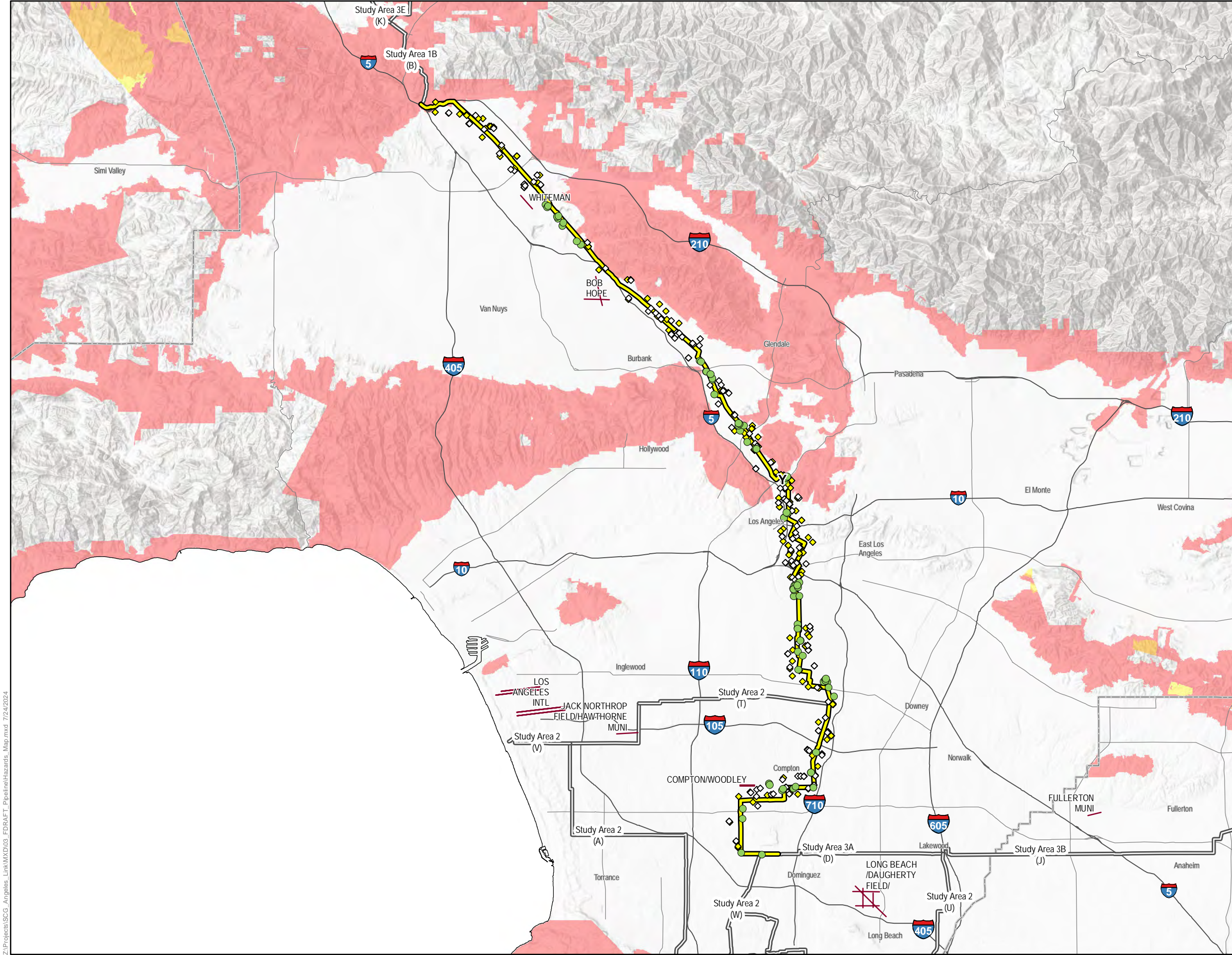
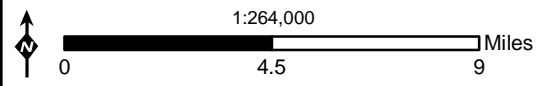
**Attachment D:  
Community Facilities and Features  
Study Area 3F**

**Angeles Link Phase 1  
Environmental Analysis**

- ◆ School (Half-Mile)
  - ◇ Day-Care Center (Half-Mile)
  - Hazardous Materials Site - Open Case (1,000 feet)
  - Runway (Two-Mile)
  - Interstate
  - State Highway
  - County Boundary
- Segment**
- █ Y
  - ▬ Adjacent/Other Study Area Visible
- Fire Hazard Severity**
- Very High
  - High
  - Moderate

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angeles\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

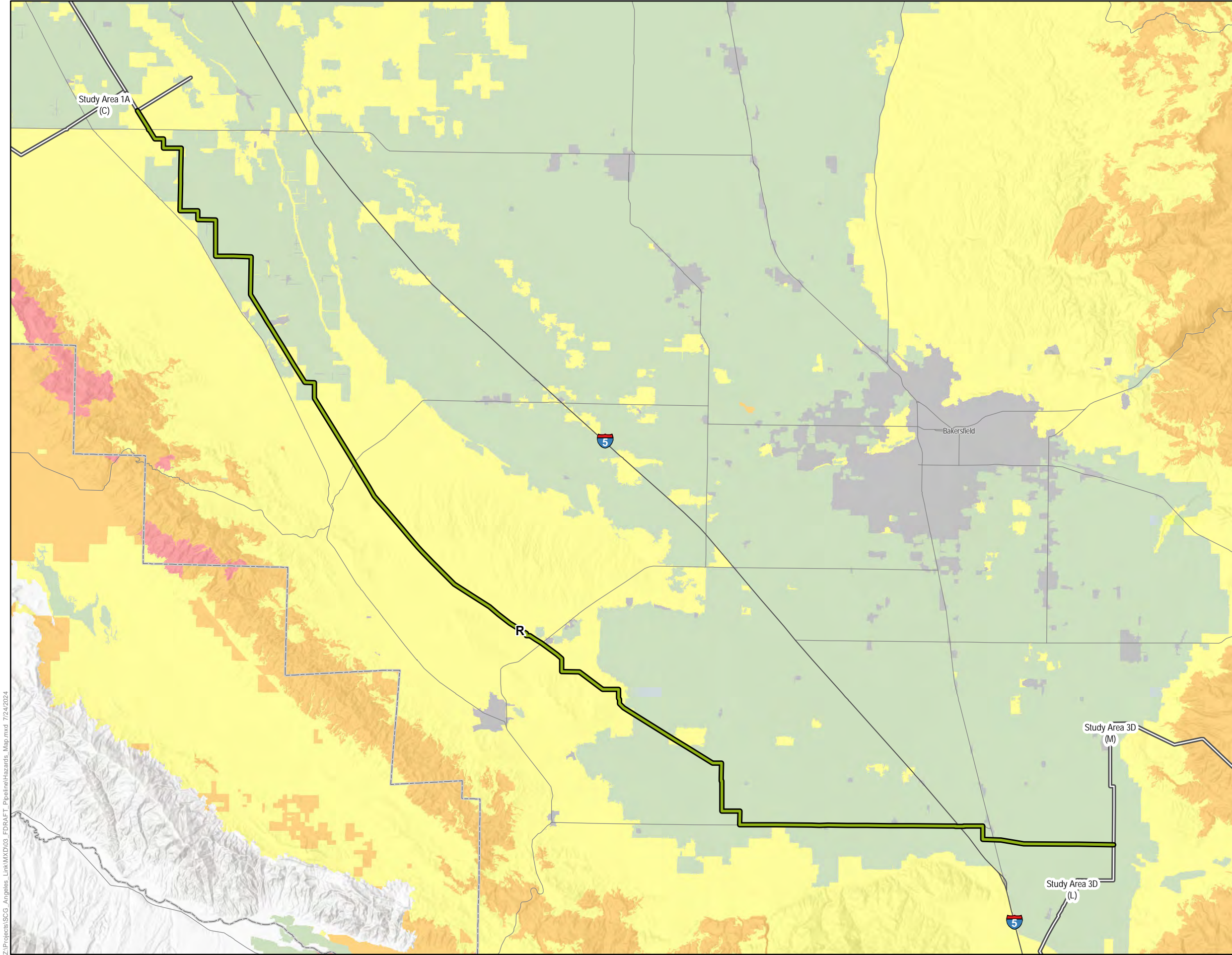
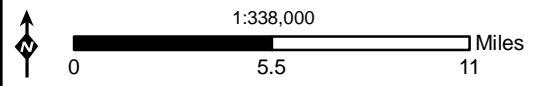
**Attachment D:  
Community Facilities and Features  
Study Area 4A**

**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- County Boundary
- Segment**
- R
- Adjacent/Other Study Area Visible
- Fire Hazard Severity**
- Very High
- High
- Moderate
- Non-Wildland/Non-Urban
- Urban Unzoned

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

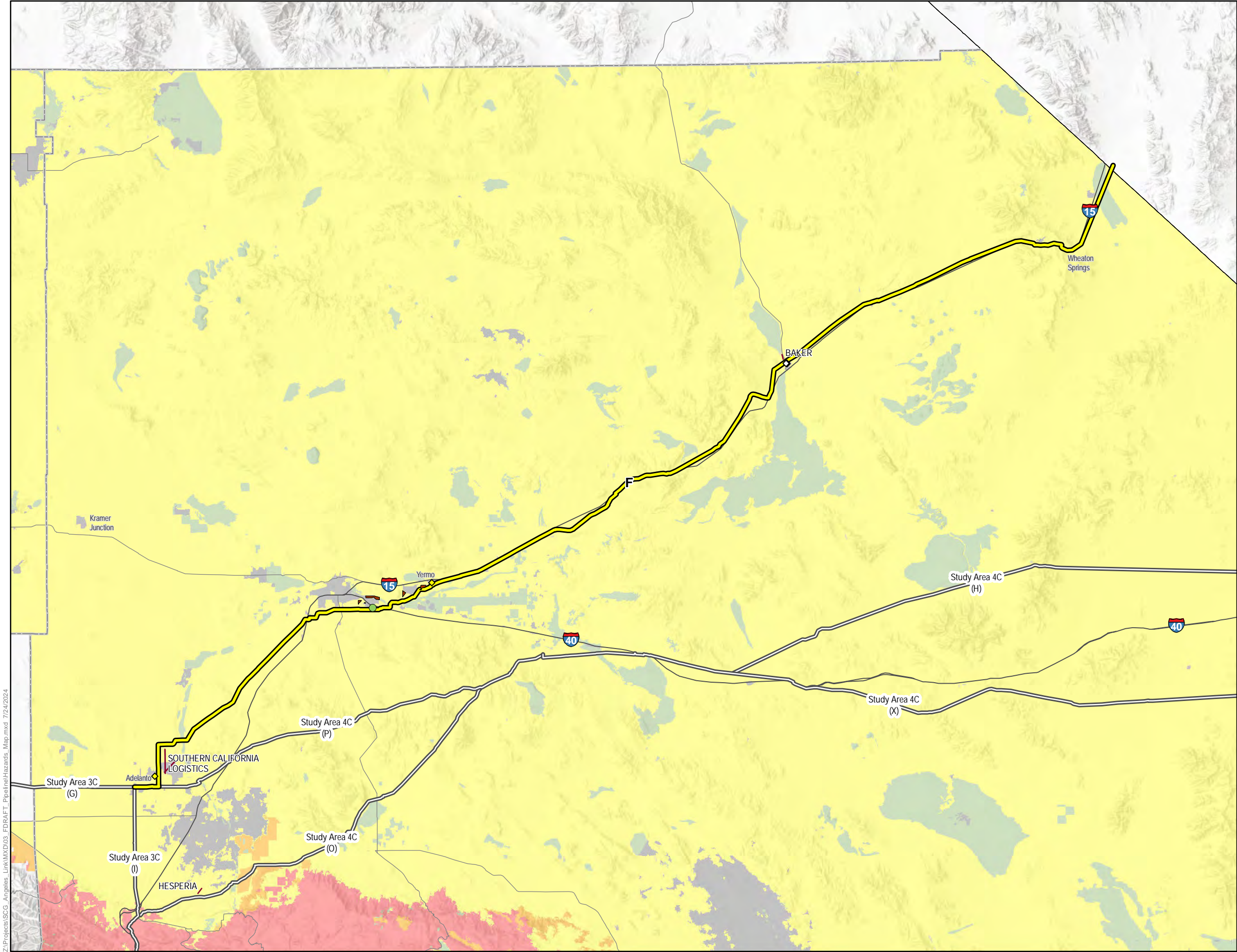
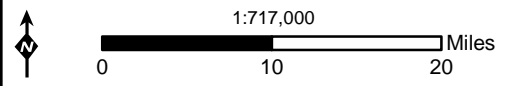
**Attachment D:  
Community Facilities and Features  
Study Area 4B**

**Angeles Link Phase 1  
Environmental Analysis**

- ◆ School (Half-Mile)
  - ◇ Day-Care Center (Half-Mile)
  - Hazardous Materials Site - Open Case (1,000 feet)
  - Runway (Two-Mile)
  - Interstate
  - State Highway
  - County Boundary
  - Barstow Marine Corps Logistics Base
- Segment**
- F
  - Adjacent/Other Study Area Visible
- Fire Hazard Severity**
- Very High
  - High
  - Moderate
  - Non-Wildland/Non-Urban
  - Urban Unzoned

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

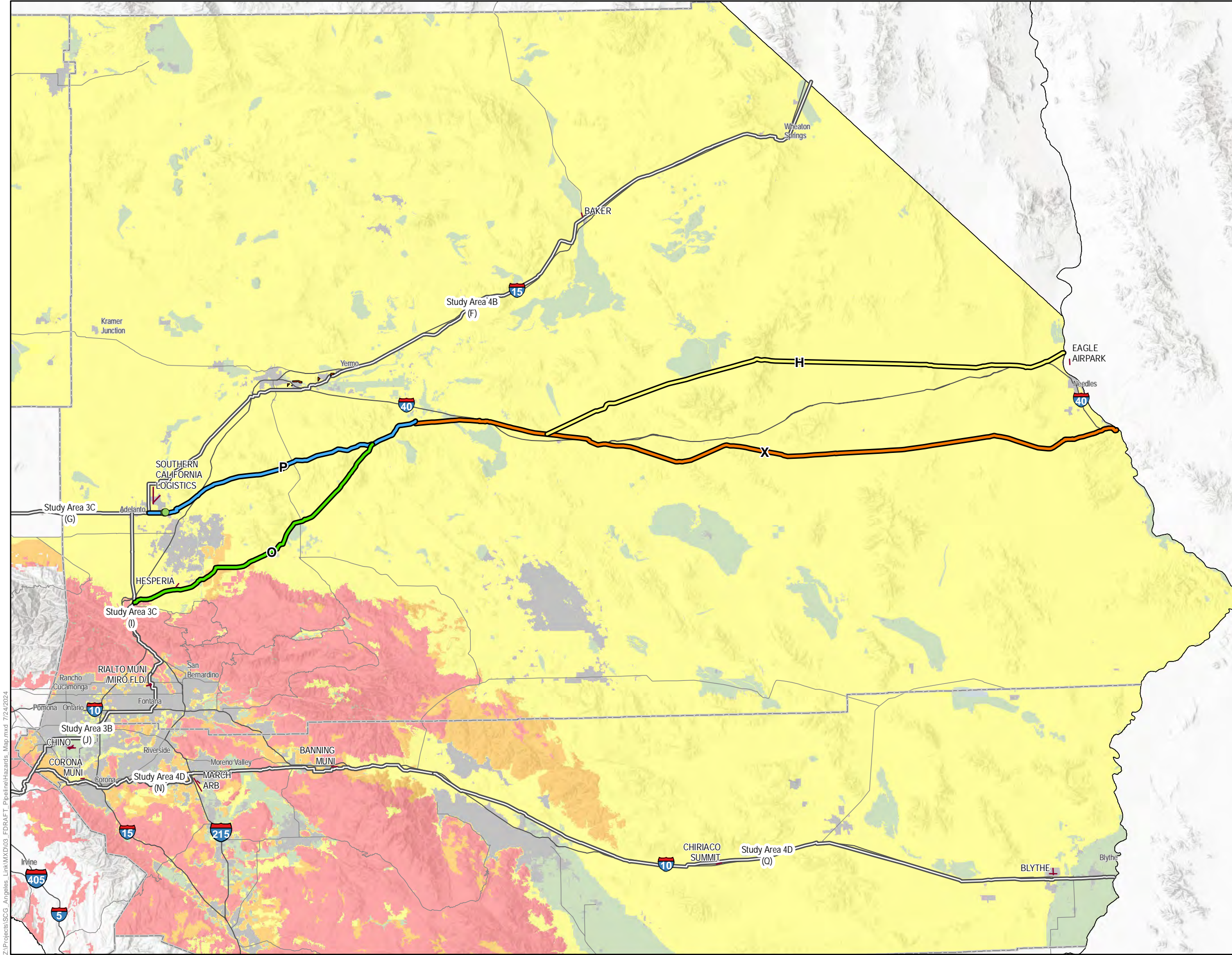
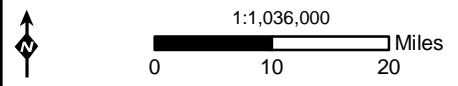
**Attachment D:  
Community Facilities and Features  
Study Area 4C**

**Angeles Link Phase 1  
Environmental Analysis**

- Hazardous Materials Site - Open Case (1,000 feet)
- Runway (Two-Mile)
- Interstate
- State Highway
- County Boundary
- Barstow Marine Corps Logistics Base
- Segment**
- H
- O
- P
- X
- Adjacent/Other Study Area Visible
- Fire Hazard Severity**
- Very High
- High
- Moderate
- Non-Wildland/Non-Urban
- Urban Unzoned

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024

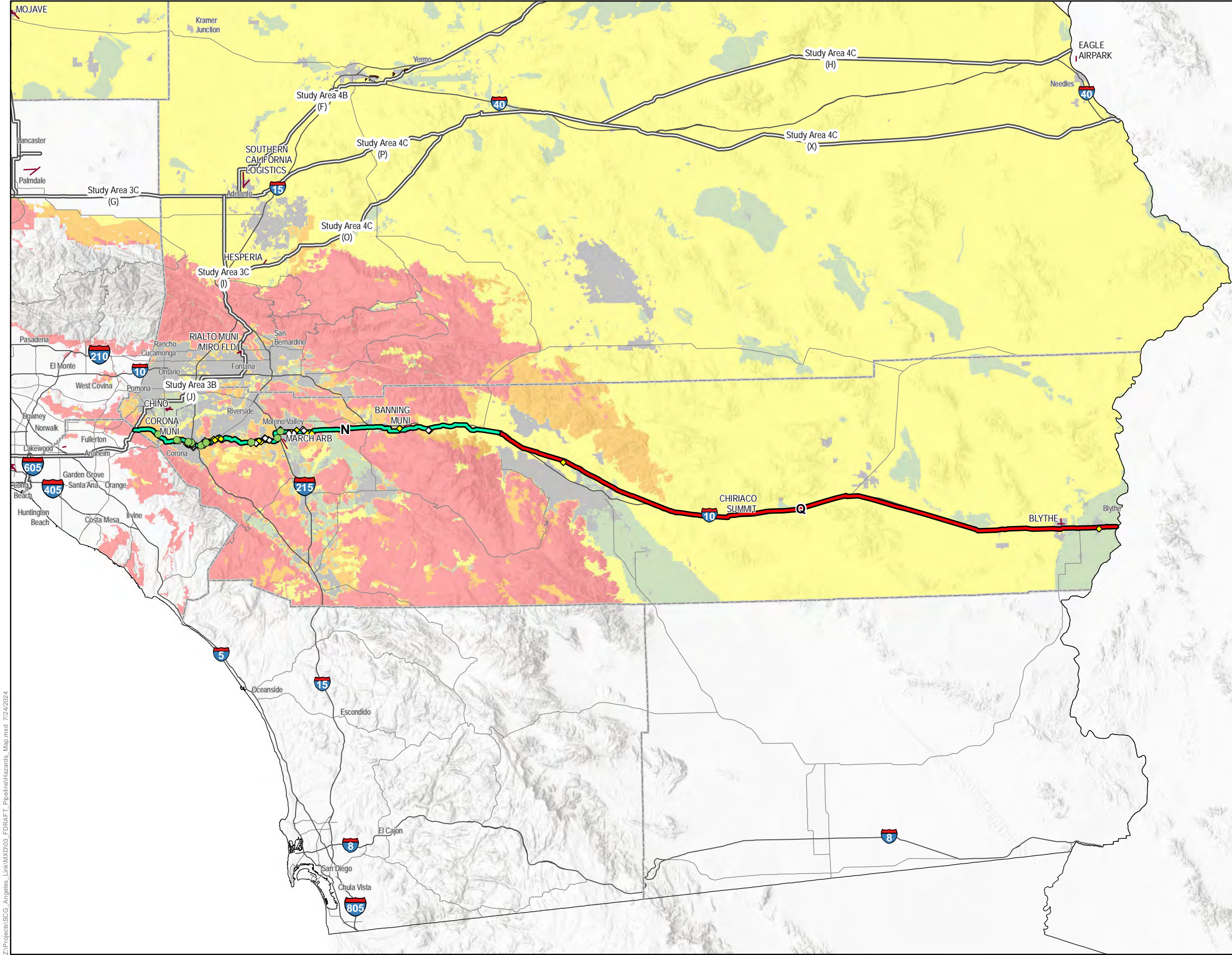
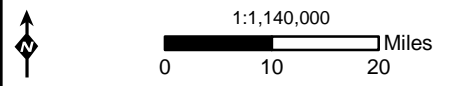
**Attachment D:  
Community Facilities and Features  
Study Area 4D**

**Angeles Link Phase 1  
Environmental Analysis**

- ◆ School (Half-Mile)
- ◇ Day-Care Center (Half-Mile)
- Hazardous Materials Site - Open Case (1,000 feet)
- Runway (Two-Mile)
- Interstate
- State Highway
- County Boundary
- Barstow Marine Corps Logistics Base
- Segment**
- N
- Q
- Adjacent/Other Study Area Visible
- Fire Hazard Severity**
- Very High
- High
- Moderate
- Non-Wildland/Non-Urban
- Urban Unzoned

**Note:** This map only displays features that could occur within the buffers used for each feature analyzed in the desktop analysis, except for Fire Hazard Severity Zones that are fully displayed on the map. No data is shown for a particular feature if it does not occur within the buffer.

- Runways are shown within two-miles.
- Day-Care Centers and Schools are shown within half-mile.
- Hazardous Material Sites are shown within 1,000 feet.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHazards\_Map.mxd 7/24/2024





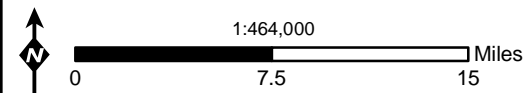
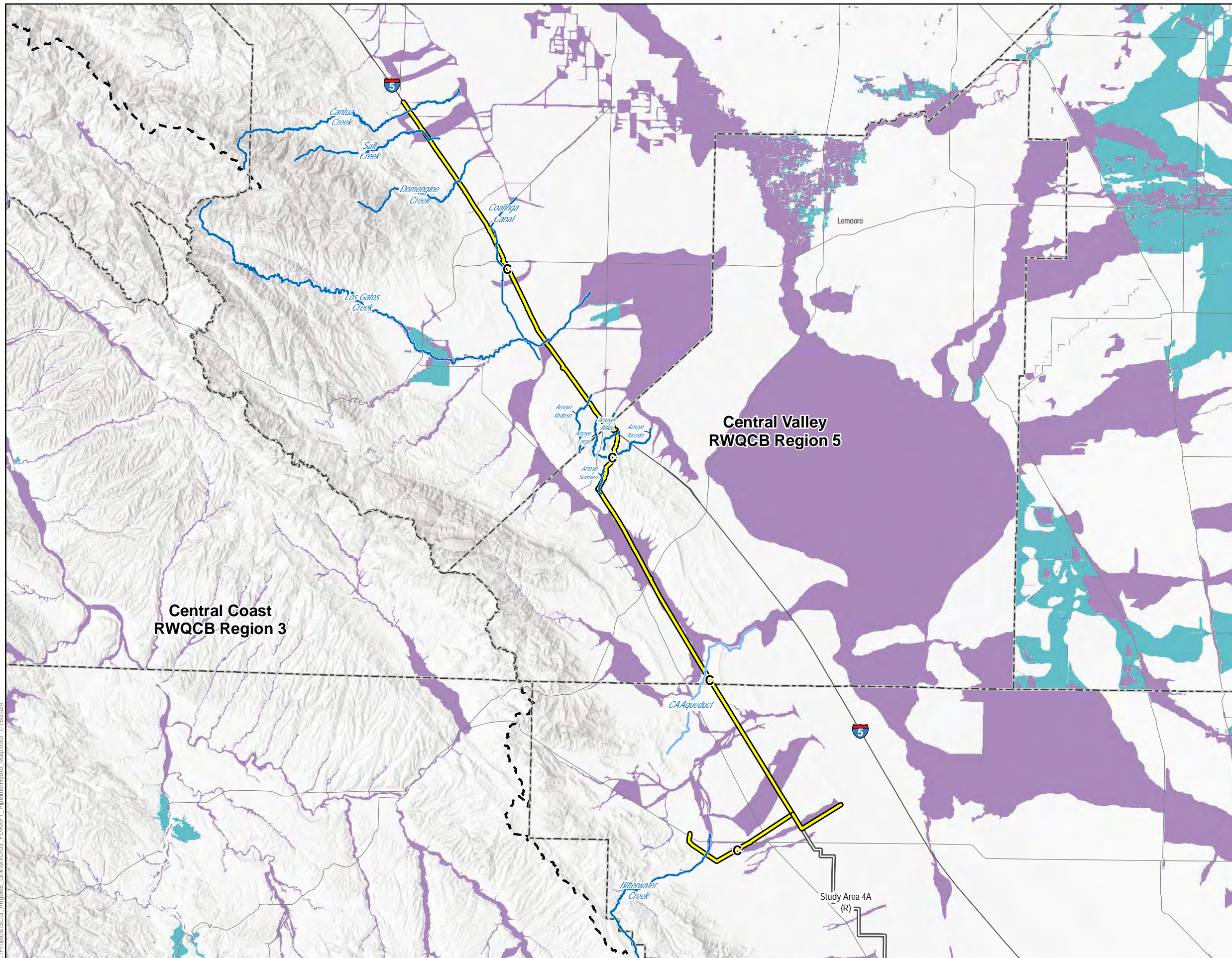
**ATTACHMENT E: HYDROLOGICAL MAPS**



**Attachment E: Hydrological Map  
Study Area 1A**

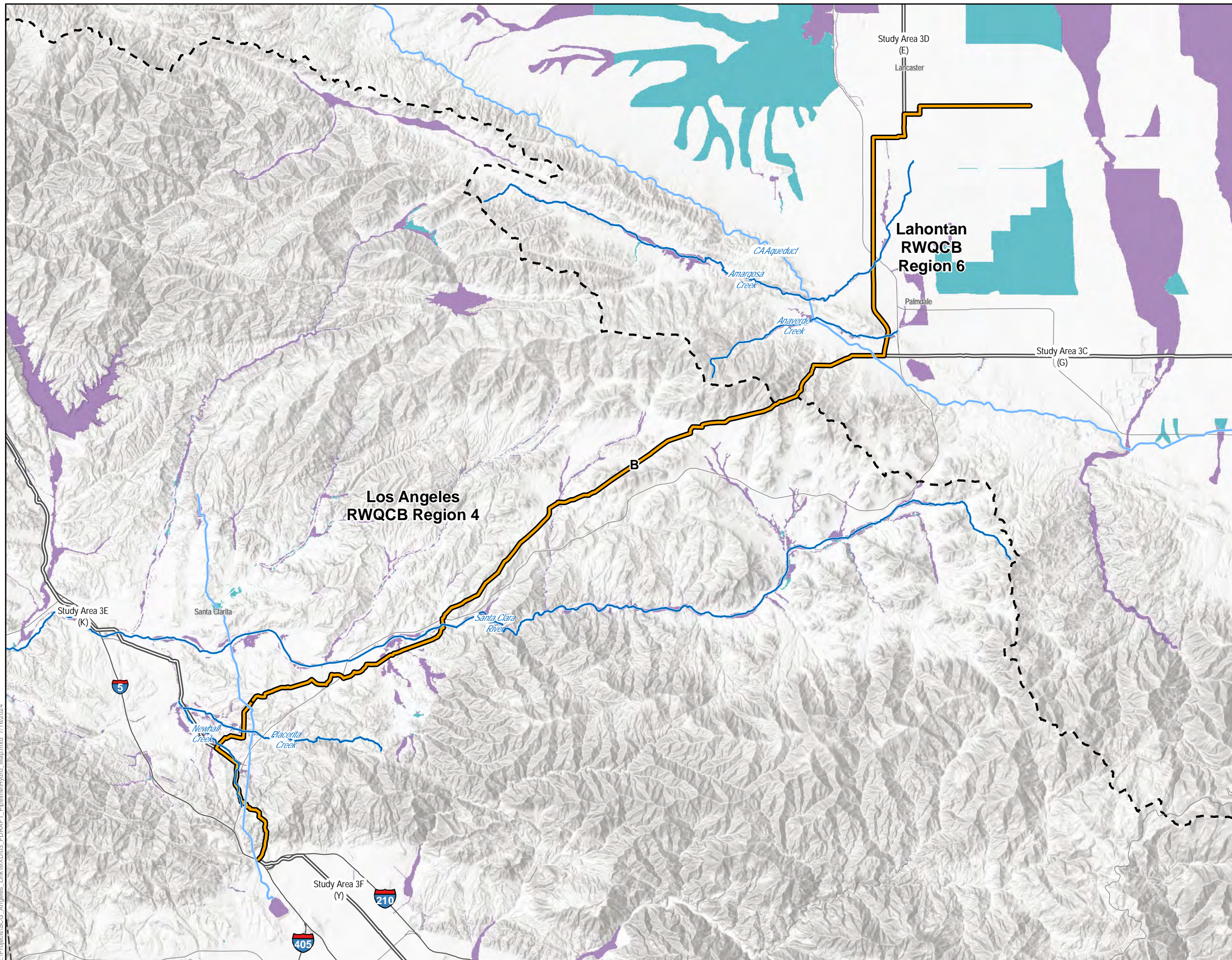
**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- - - County Boundary
- Stream/River
- Aqueduct
- - - Regional Board Boundary
- Segment**
- C
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)



**Attachment E: Hydrological Map  
Study Area 1B**

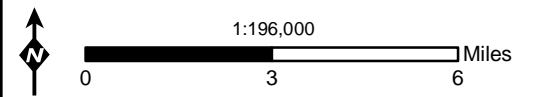
**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
- State Highway
- - - County Boundary
- Stream/River
- Aqueduct
- - - Regional Board Boundary
- Segment**
- B
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)



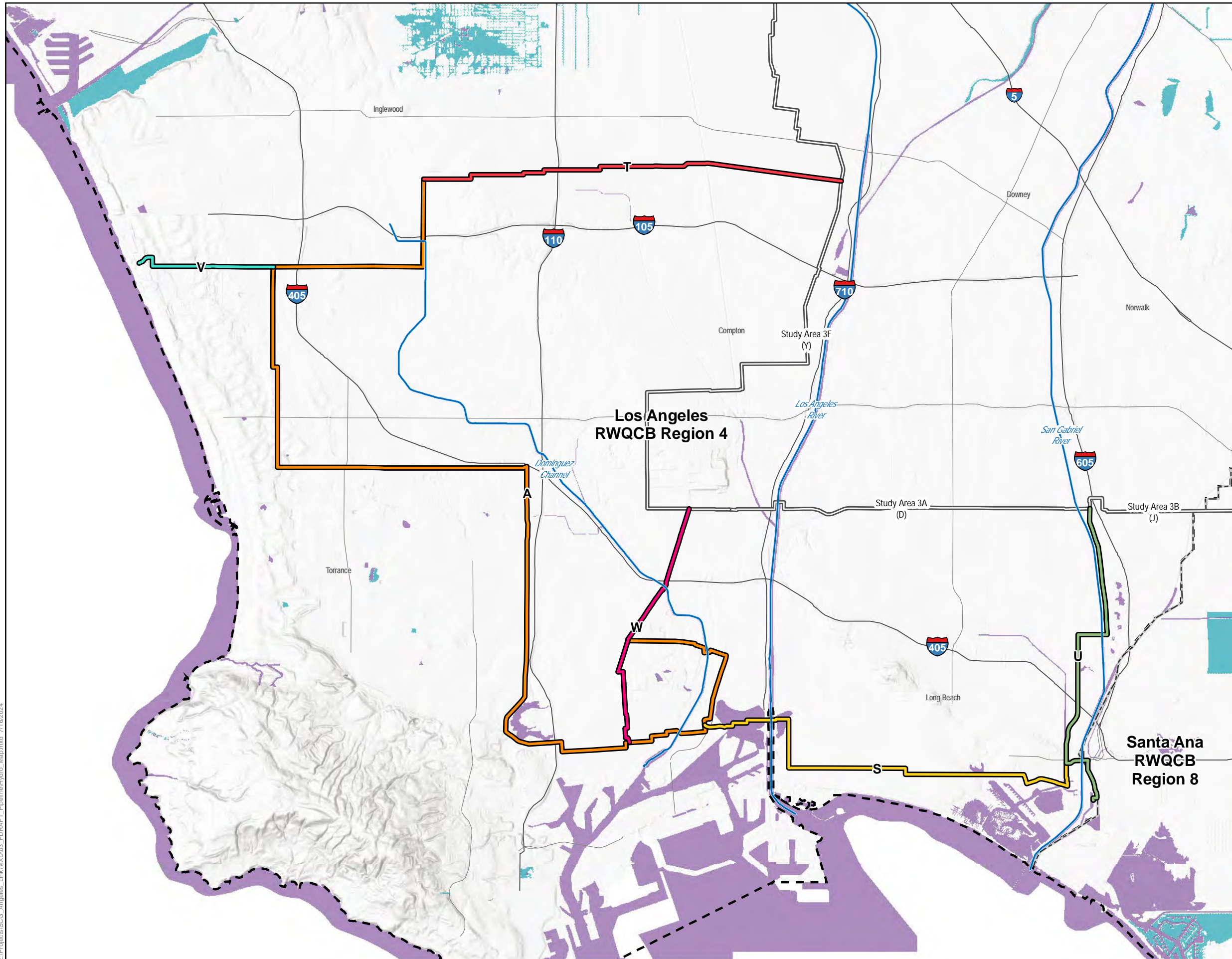
**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL



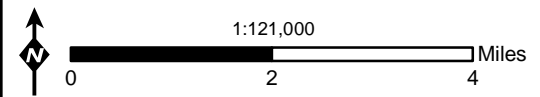
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHydro\_Map.mxd 7/16/2024

**Attachment E: Hydrological Map  
Study Area 2**

**Angeles Link Phase 1  
Environmental Analysis**



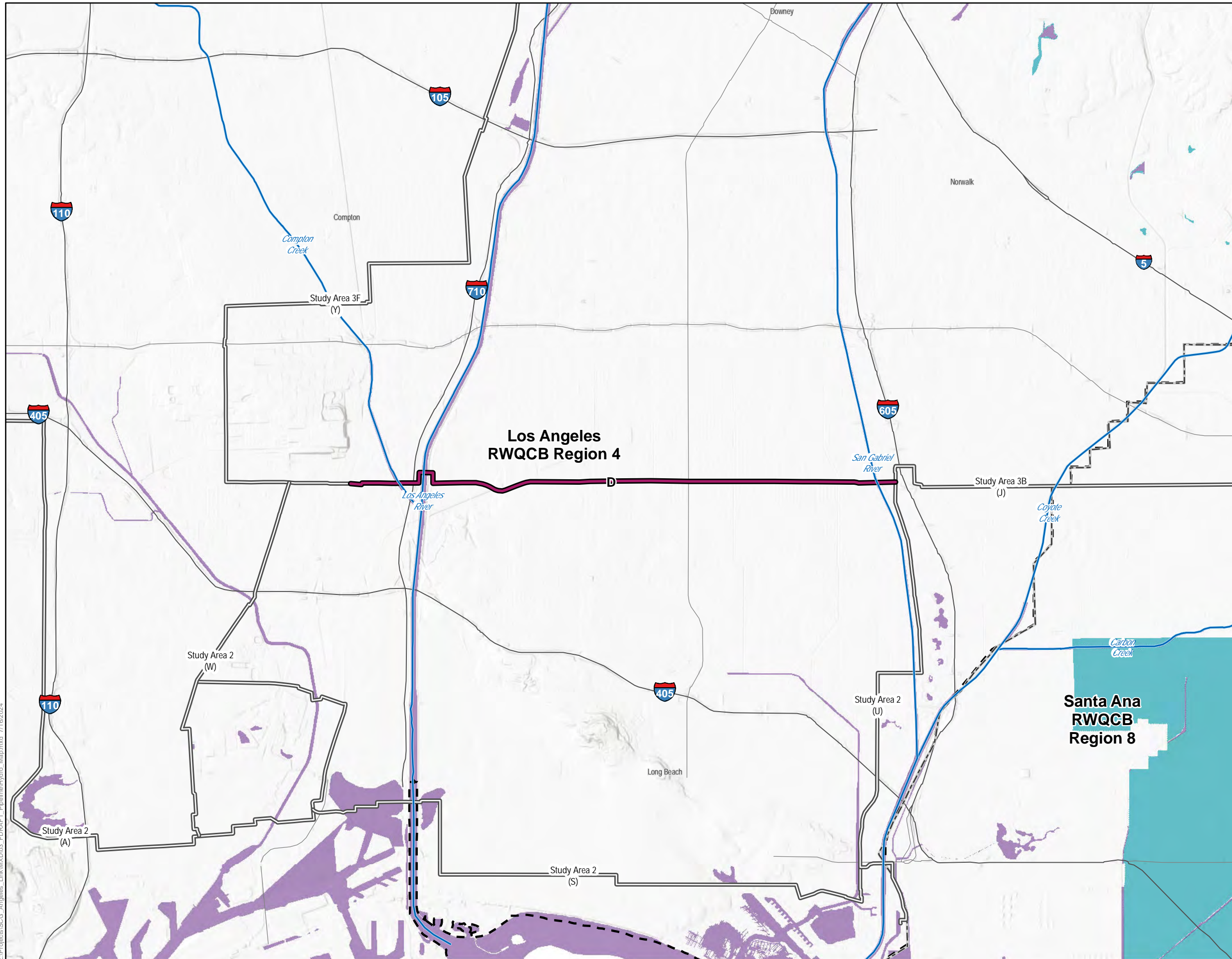
- Interstate
  - State Highway
  - - - County Boundary
  - Stream/River
  - - - Regional Board Boundary
- Segment**
- A
  - S
  - T
  - U
  - V
  - W
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
  - 0.2% Annual Chance Flood Hazard (500 Year-Flood)



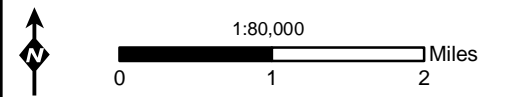
**Attachment E: Hydrological Map  
Study Area 3A**

**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- - - County Boundary
- Stream/River
- - - Regional Board Boundary
- Segment**
- D
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)



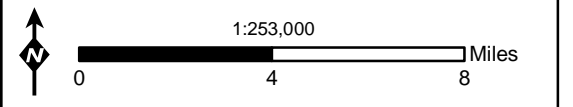
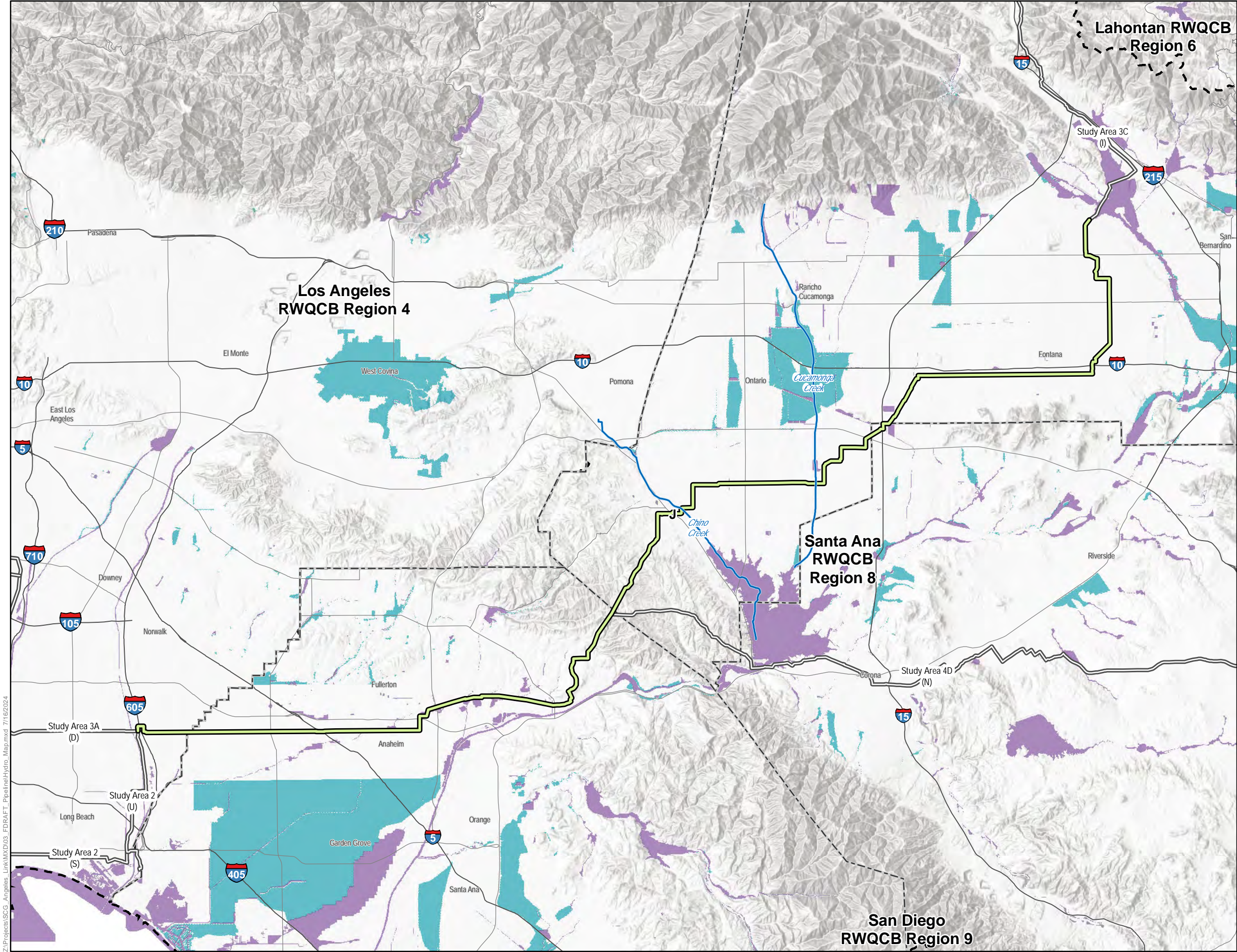
**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL



**Attachment E: Hydrological Map  
Study Area 3B**

**Angeles Link Phase 1  
Environmental Analysis**

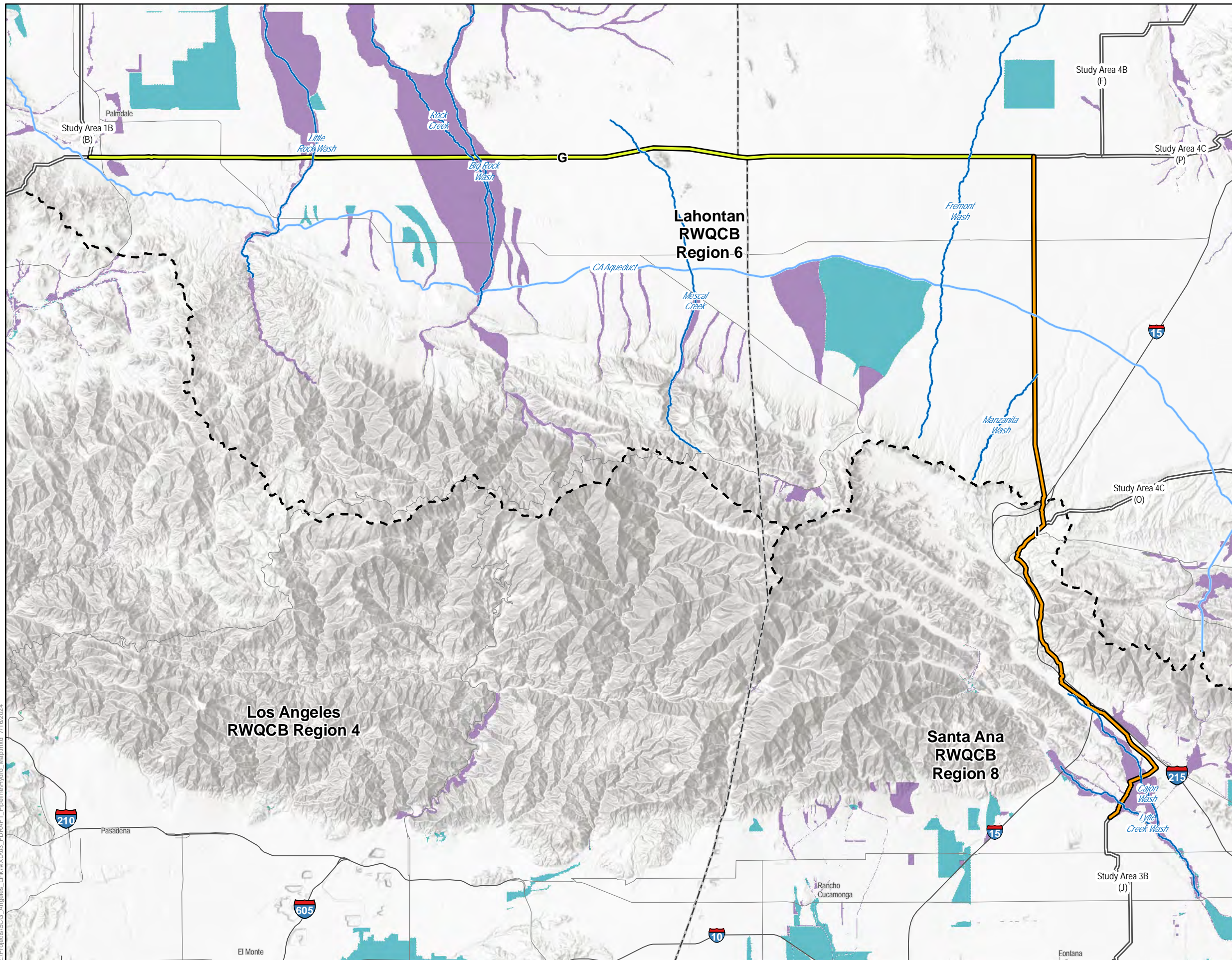
- Interstate
- State Highway
- - - County Boundary
- Stream/River
- - - Regional Board Boundary
- Segment**
- J
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)



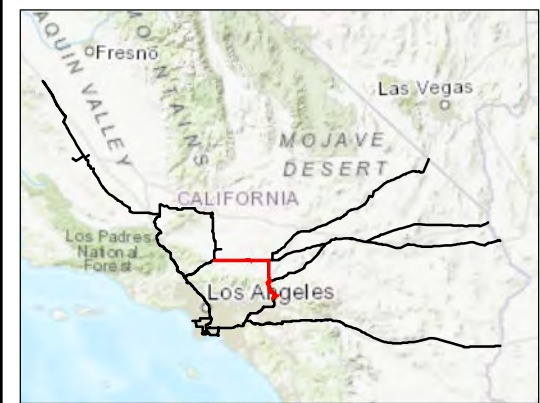
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHydro\_Map.mxd 7/16/2024

**Attachment E: Hydrological Map  
Study Area 3C**

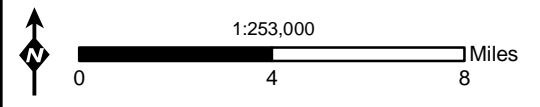
**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
- State Highway
- - - County Boundary
- Stream/River
- Aqueduct
- - - Regional Board Boundary
- Segment**
- G
- I
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)



**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL

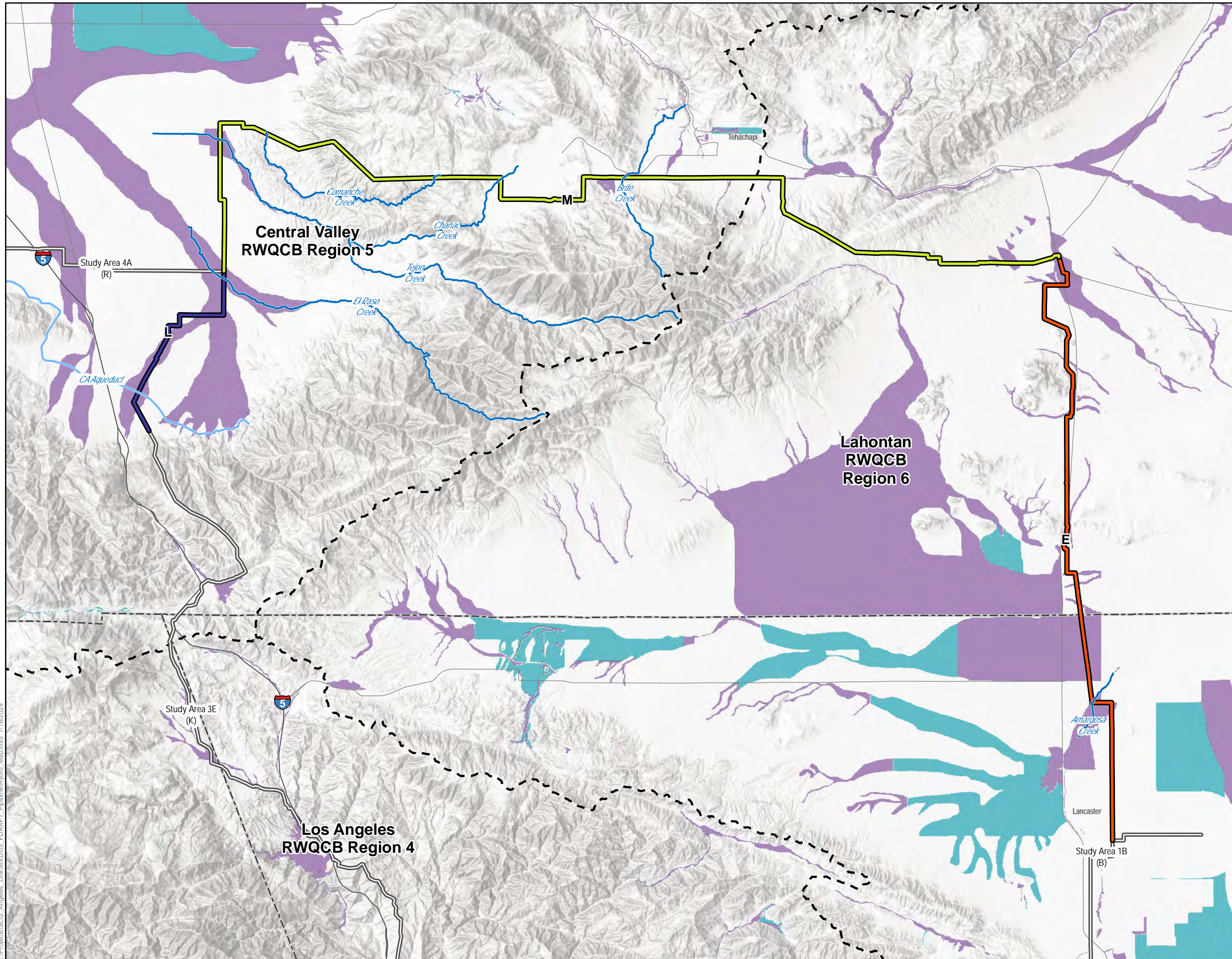


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHydro\_Map.mxd 7/16/2024

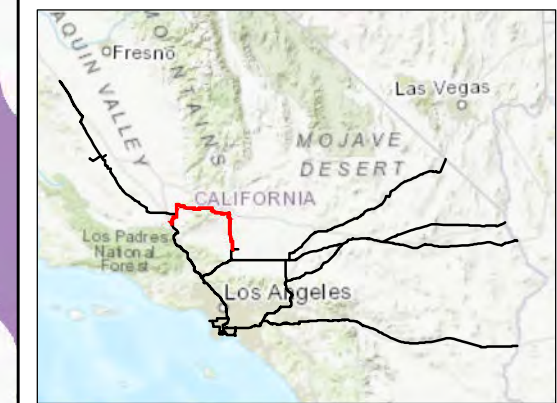


**Attachment E: Hydrological Map  
Study Area 3D**

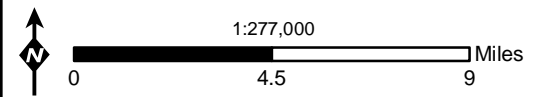
**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
- State Highway
- - - County Boundary
- Stream/River
- Aqueduct
- - - Regional Board Boundary
- Segment**
- E
- L
- M
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)



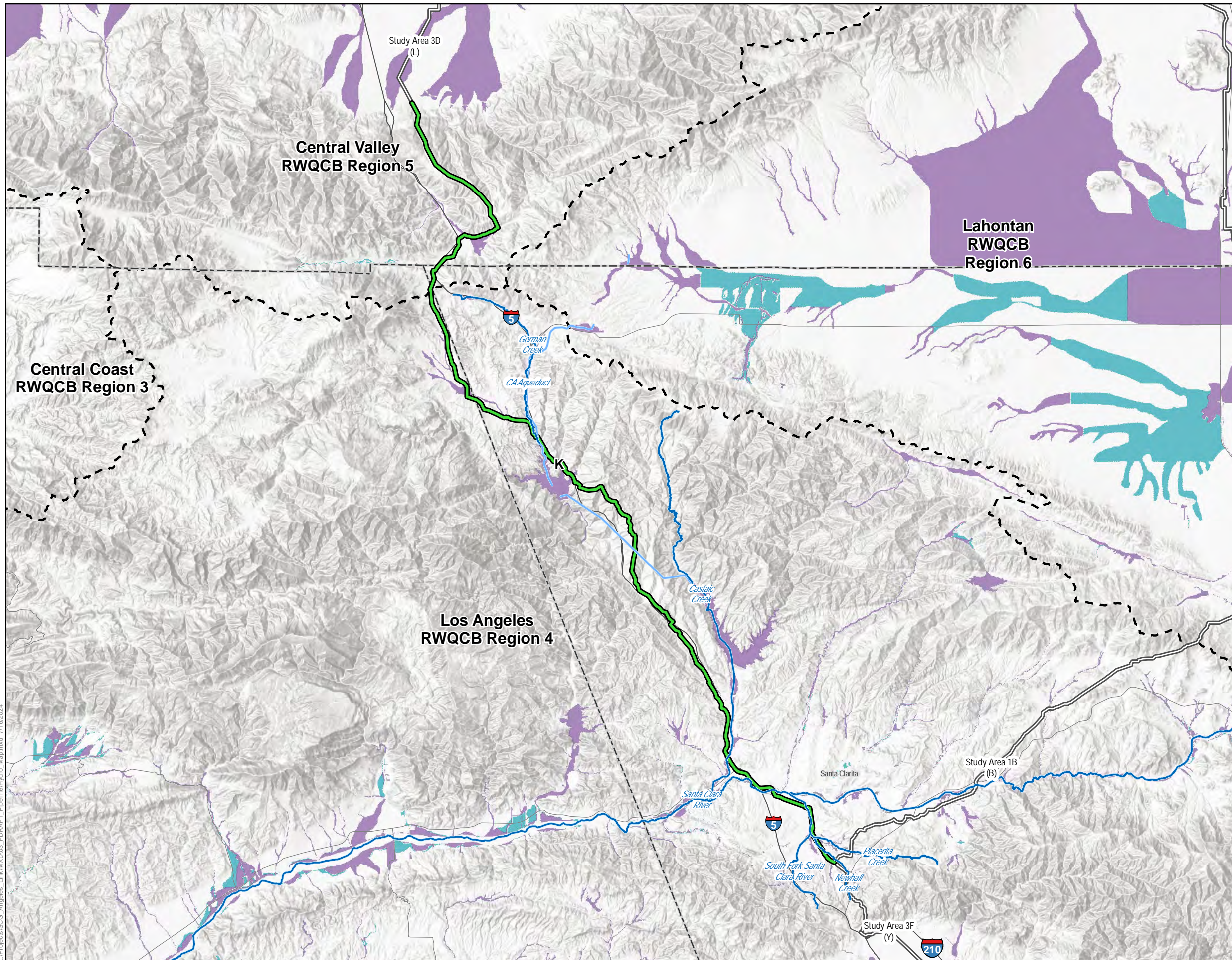
**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHydro\_Map.mxd 7/16/2024

**Attachment E: Hydrological Map  
Study Area 3E**

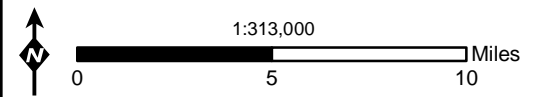
**Angeles Link Phase 1  
Environmental Analysis**



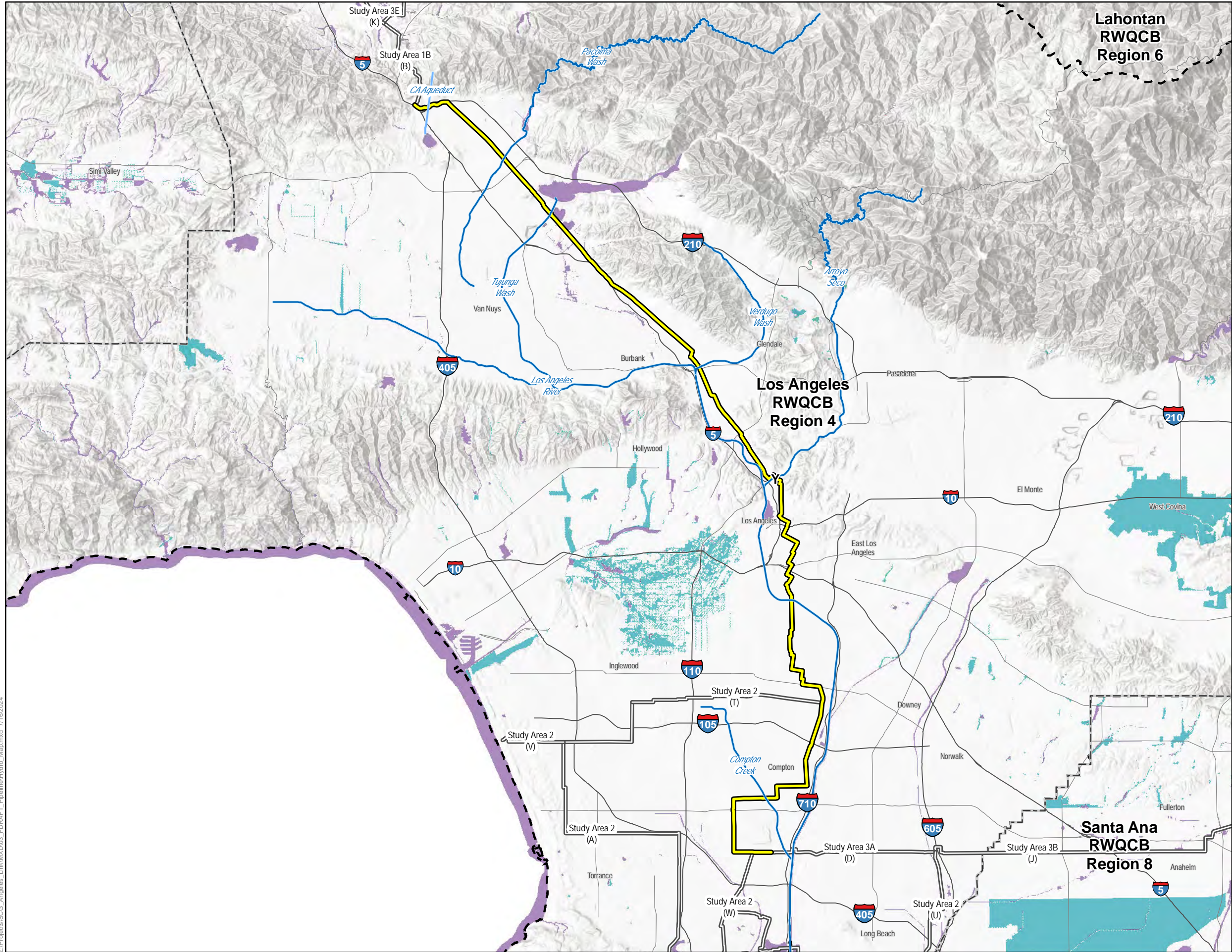
- Interstate
- State Highway
- - - County Boundary
- Stream/River
- Aqueduct
- - - Regional Board Boundary
- Segment**
- K
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)



**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHydro\_Map.mxd 7/16/2024



**Attachment E: Hydrological Map  
Study Area 3F**

**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- - - County Boundary
- Stream/River
- Aqueduct
- - - Regional Board Boundary
- Segment**
- Y
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)



SoCalGas INSIGNIA ENVIRONMENTAL

1:264,000

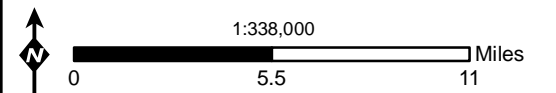
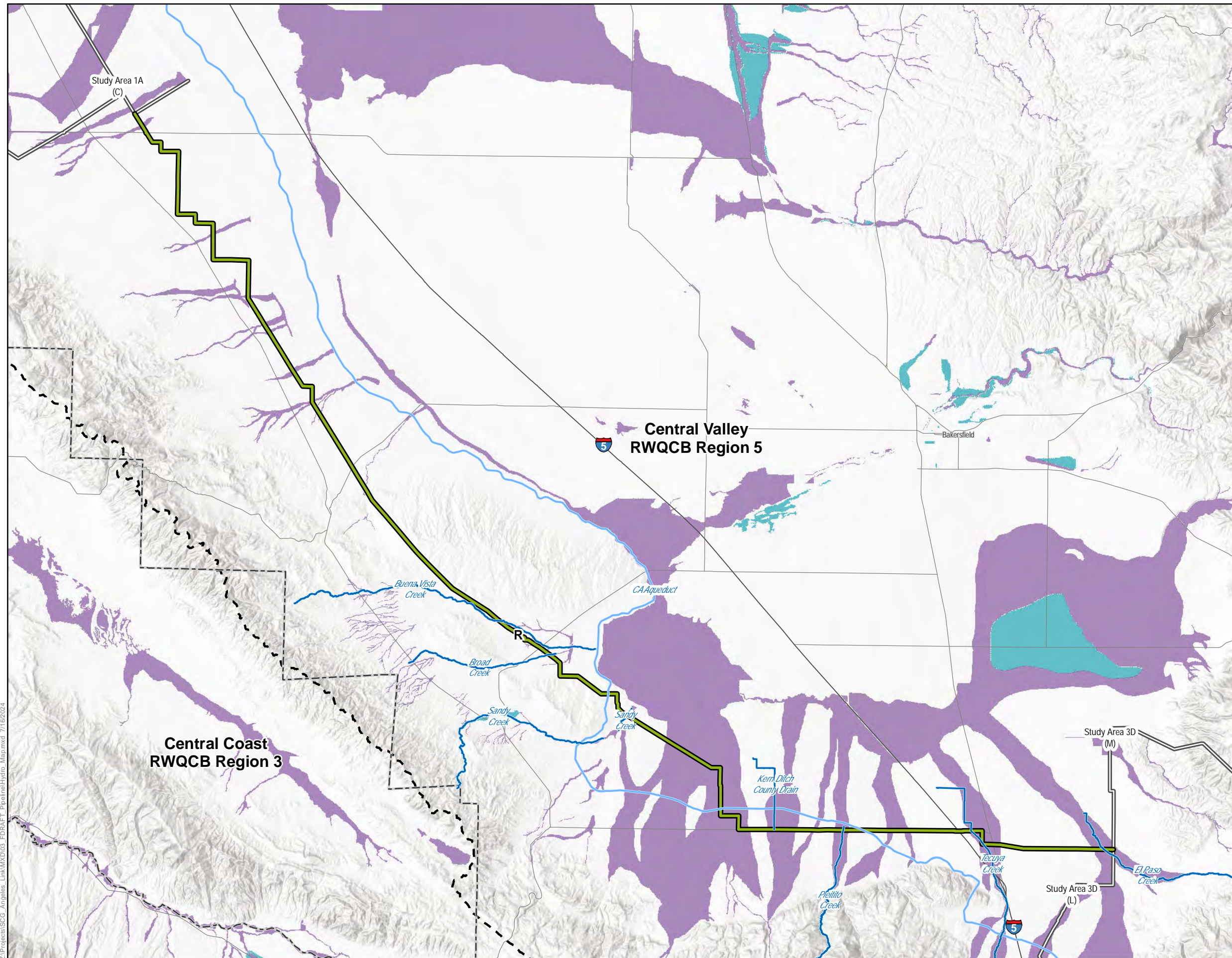
0 4.5 9 Miles

Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHydro\_Map.mxd 7/16/2024

**Attachment E: Hydrological Map  
Study Area 4A**

**Angeles Link Phase 1  
Environmental Analysis**

- Interstate
- State Highway
- - - County Boundary
- Stream/River
- Aqueduct
- - - Regional Board Boundary
- Segment**
- R
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)



**Attachment E: Hydrological Map  
Study Area 4B**

**Angeles Link Phase 1  
Environmental Analysis**

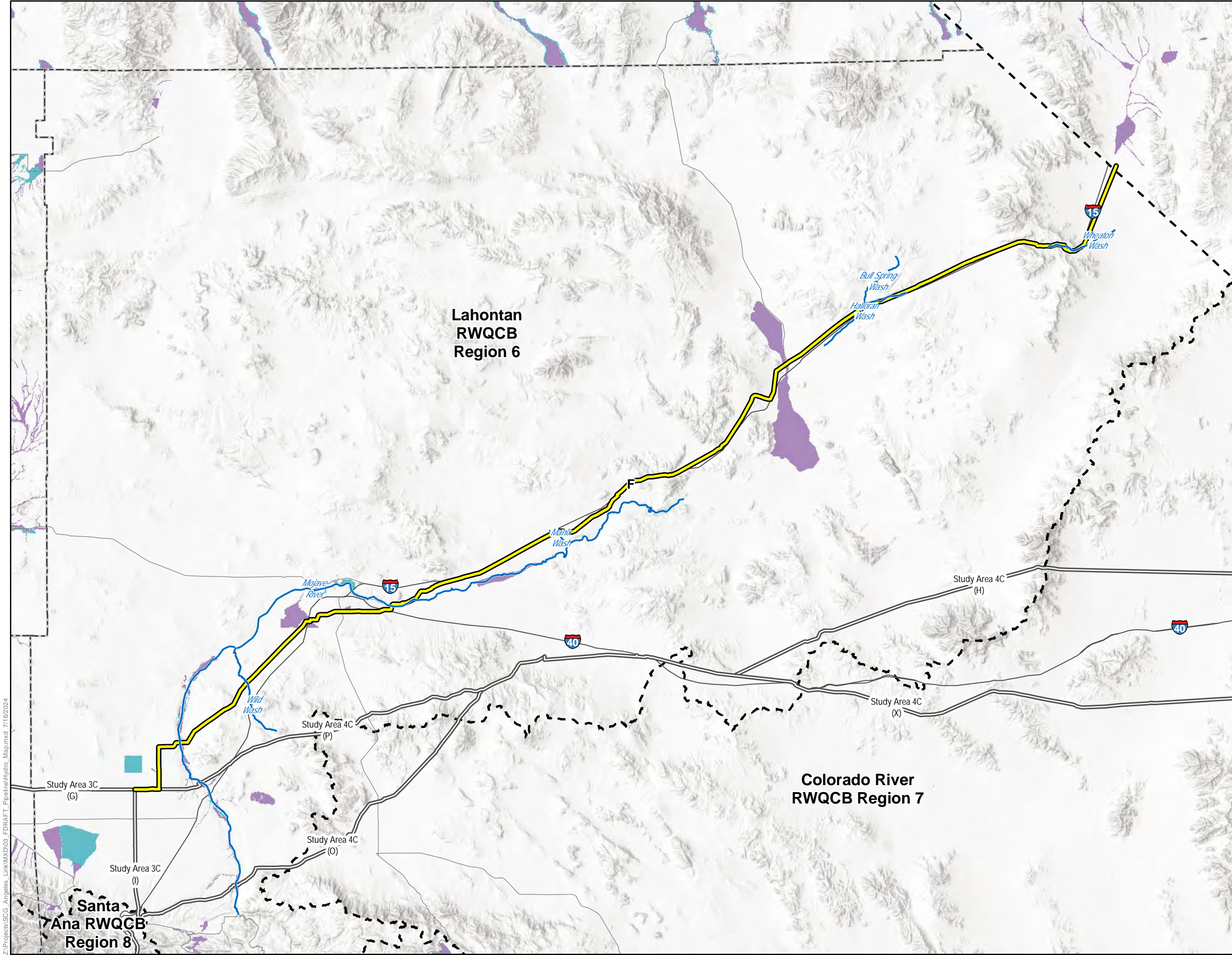
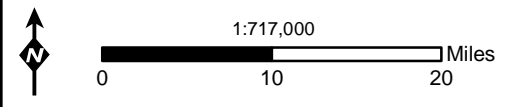
- Interstate
- State Highway
- - - County Boundary
- Stream/River
- - - Regional Board Boundary
- Segment**
- F
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
- 0.2% Annual Chance Flood Hazard (500 Year-Flood)

**Lahontan  
RWQCB  
Region 6**

**Colorado River  
RWQCB Region 7**

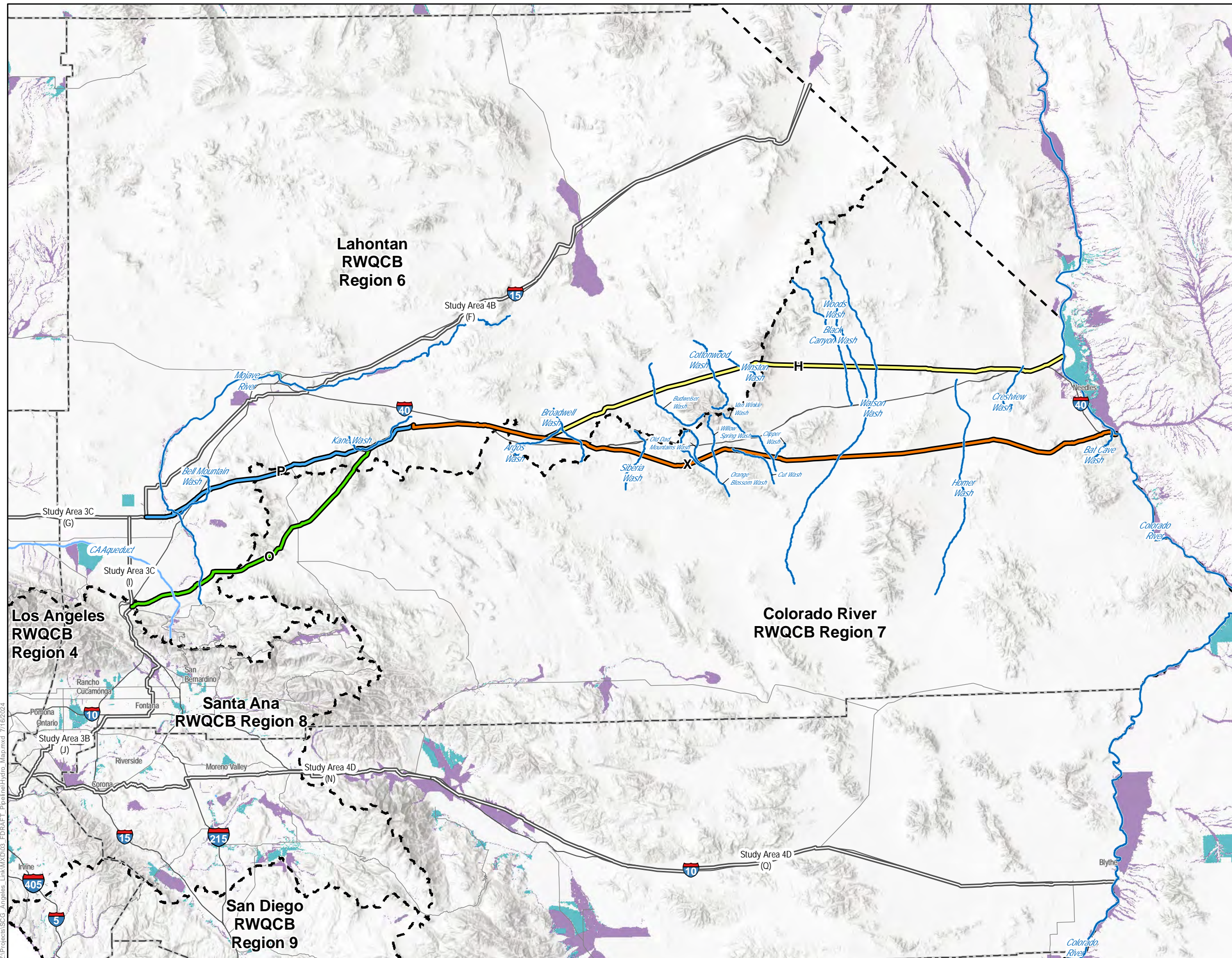
**Santa Ana  
RWQCB  
Region 8**

Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHydro\_Map.mxd 7/16/2024



**Attachment E: Hydrological Map  
Study Area 4C**

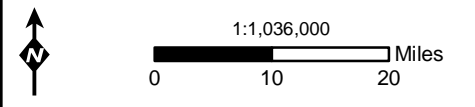
**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
  - State Highway
  - - - County Boundary
  - Stream/River
  - Aqueduct
  - - - Regional Board Boundary
- Segment**
- H
  - O
  - P
  - X
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
  - 0.2% Annual Chance Flood Hazard (500 Year-Flood)



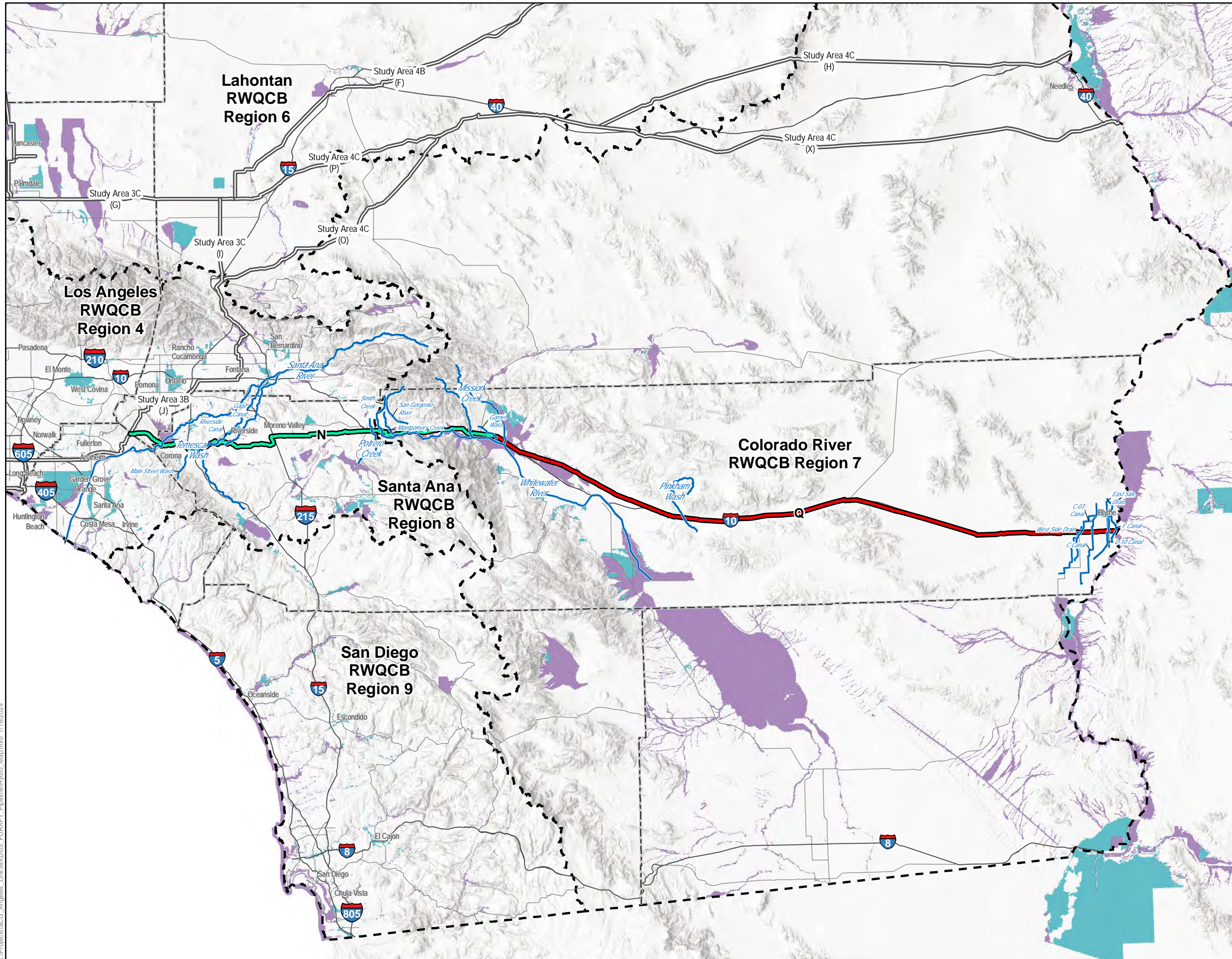
**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL



Z:\Projects\SCG\_Angelies\_Link\MK\DI03\_FDRAFT\_PipelineHydro\_Map.mxd 7/16/2024

**Attachment E: Hydrological Map  
Study Area 4D**

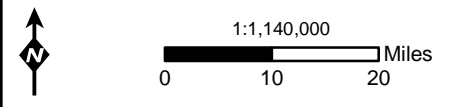
**Angeles Link Phase 1  
Environmental Analysis**



- Interstate
  - State Highway
  - - - County Boundary
  - Stream/River
  - - - Regional Board Boundary
- Segment**
- N
  - Q
- Adjacent/Other Study Area Visible
- FEMA Floodplains**
- 1% Annual Chance Flood Hazard (100 Year-Flood)
  - 0.2% Annual Chance Flood Hazard (500 Year-Flood)



**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL



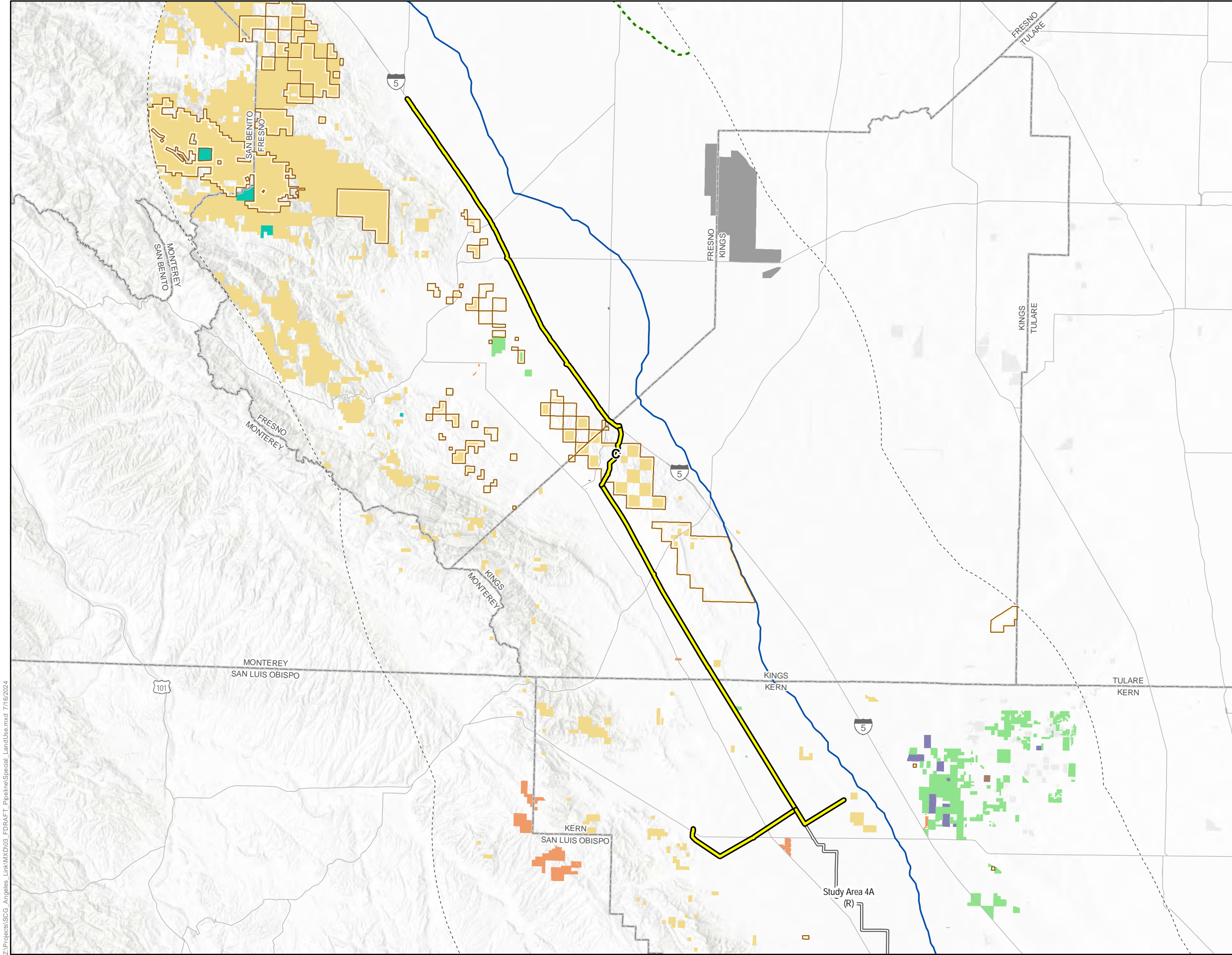
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_PipelineHydro\_Map.mxd 7/16/2024





**ATTACHMENT F-1: SPECIAL LAND USE DESIGNATIONS MAPS**






**Attachment F-1: Special Land Use Designations Map  
Study Area 1A**


**Angeles Link Phase 1  
Environmental Analysis**

- County Boundary
- - - 20-Mile Project Buffer
- Segment**
- █ C
- California Landownership**
- █ U.S. Bureau of Land Management (BLM)
- █ Other Federal Land
- █ Non-Governmental Organization
- █ California Department of Fish and Wildlife (CDFW)
- █ Other State Land
- █ City/County
- █ U.S. Military/Defense
- Protected Areas**
- █ Conservation Easements
- BLM Areas of Critical Environmental Concern
- Aqueduct
- - - Historic Trail

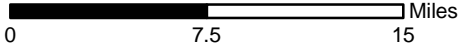
Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.







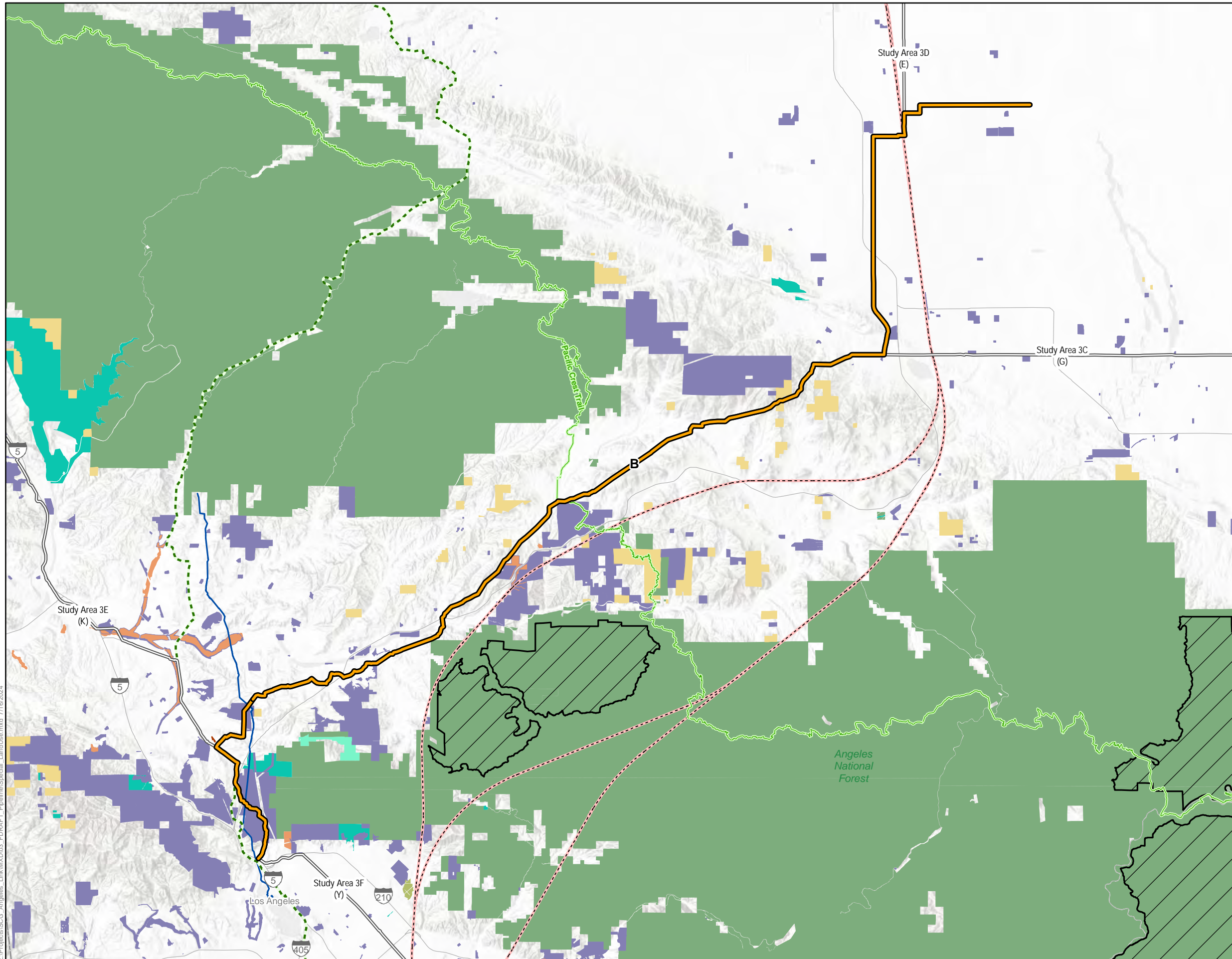
1:464,000



0 7.5 15 Miles

Attachment F-1: Special Land Use Designations Map  
Study Area 1B

Angeles Link Phase 1  
Environmental Analysis



- County Boundary
- - - California High-Speed Rail Alignments
- - - 20-Mile Project Buffer
- Segment**
- █ B
- California Landownership**
- █ U.S. Forest Service
- █ U.S. Bureau of Land Management (BLM)
- █ Other Federal Land
- █ California Department of Parks and Recreation
- █ Other State Land
- █ City/County
- █ Private (Conservation-Related Land)
- Protected Areas**
- █ Conservation Easements
- Wilderness Areas
- █ Aqueduct
- █ Pacific Crest Trail
- █ Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.

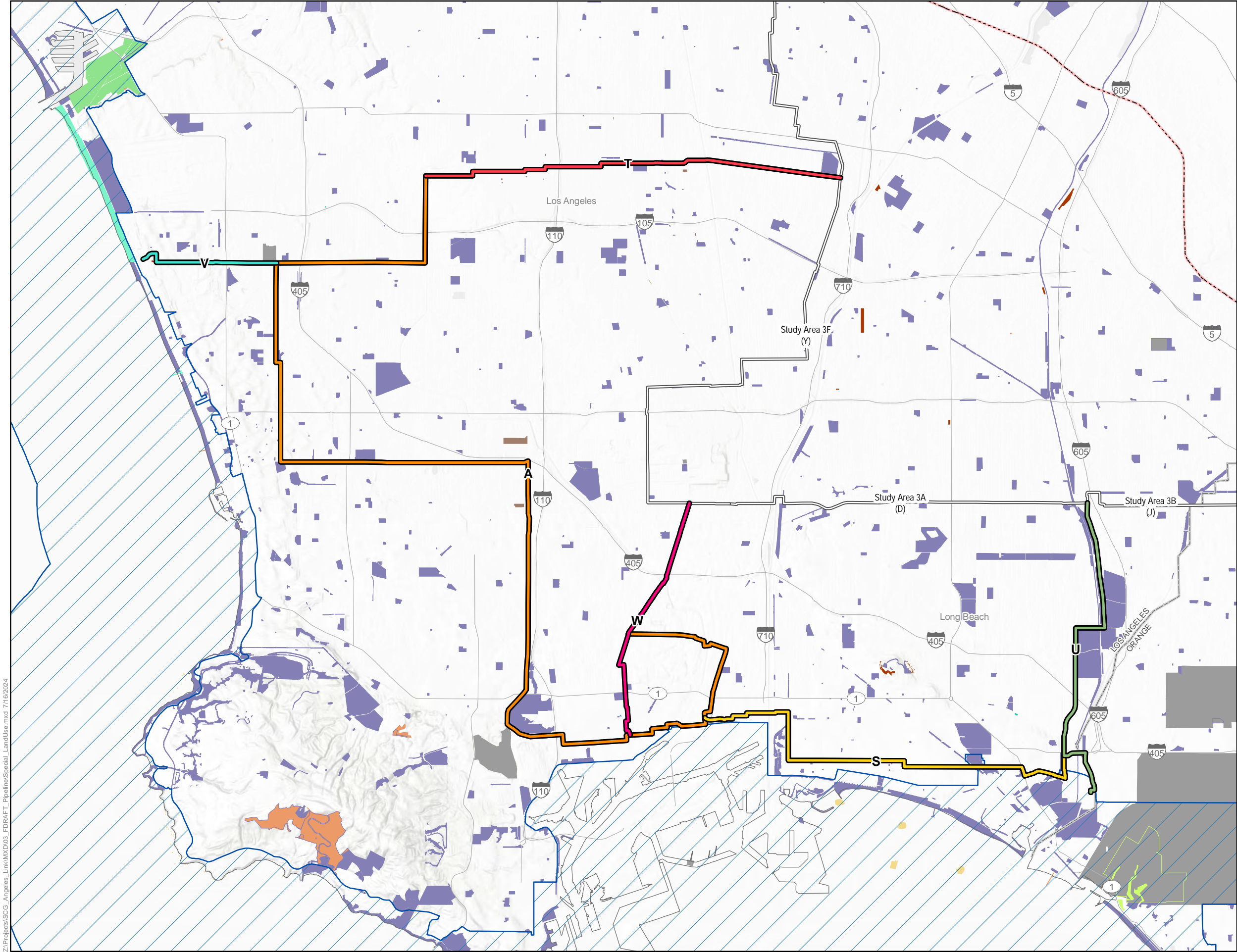


SoCalGas INSIGNIA ENVIRONMENTAL

1:196,000

0 3 6 Miles

Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024

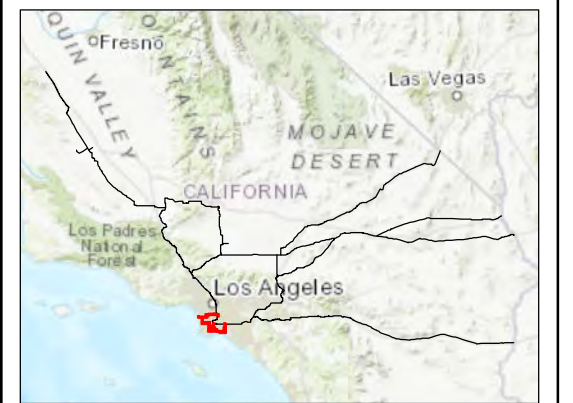


**Attachment F-1: Special Land Use Designations Map  
Study Area 2**

**Angeles Link Phase 1  
Environmental Analysis**

- County Boundary
- - - California High-Speed Rail Alignments
- ⋯ 20-Mile Project Buffer
- Segment**
- A
- S
- T
- U
- V
- W
- California Landownership**
- U.S. Fish and Wildlife Service
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- Private (Conservation-Related Land)
- U.S. Military/Defense
- Protected Areas**
- Conservation Easements
- Coastal Zone

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.



SoCalGas INSIGNIA ENVIRONMENTAL

1:121,000

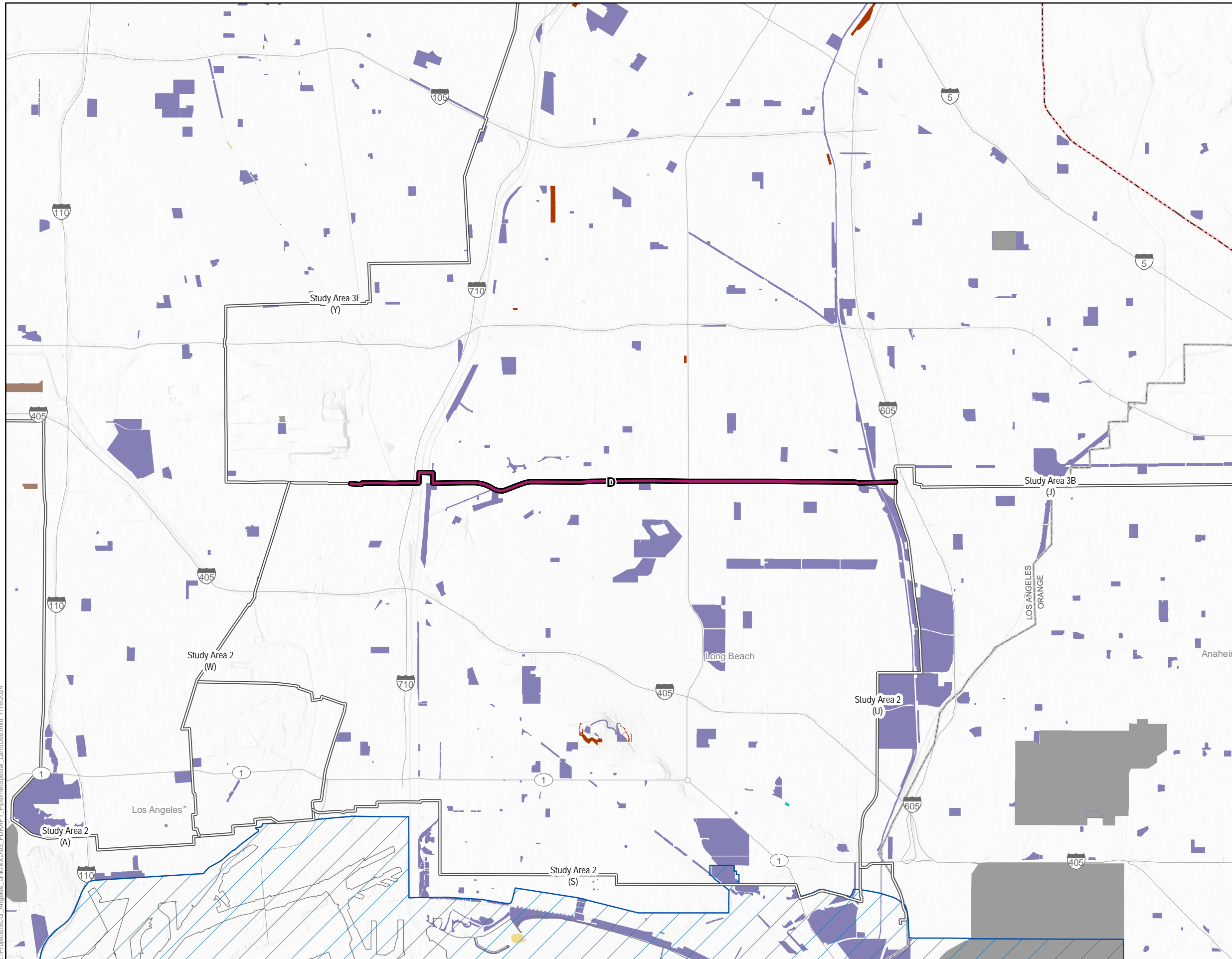
0 2 4 Miles

Z:\Projects\SCG\_Angeles\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024

**Attachment F-1: Special Land Use Designations Map  
Study Area 3A**

**Angeles Link Phase 1  
Environmental Analysis**

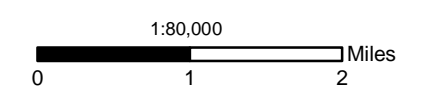
- County Boundary
- - - California High-Speed Rail Alignments
- ⋯ 20-Mile Project Buffer
- Segment**
- D
- California Landownership**
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- Other State Land
- City/County
- Private (Conservation-Related Land)
- U.S. Military/Defense
- Protected Areas**
- Coastal Zone



Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.



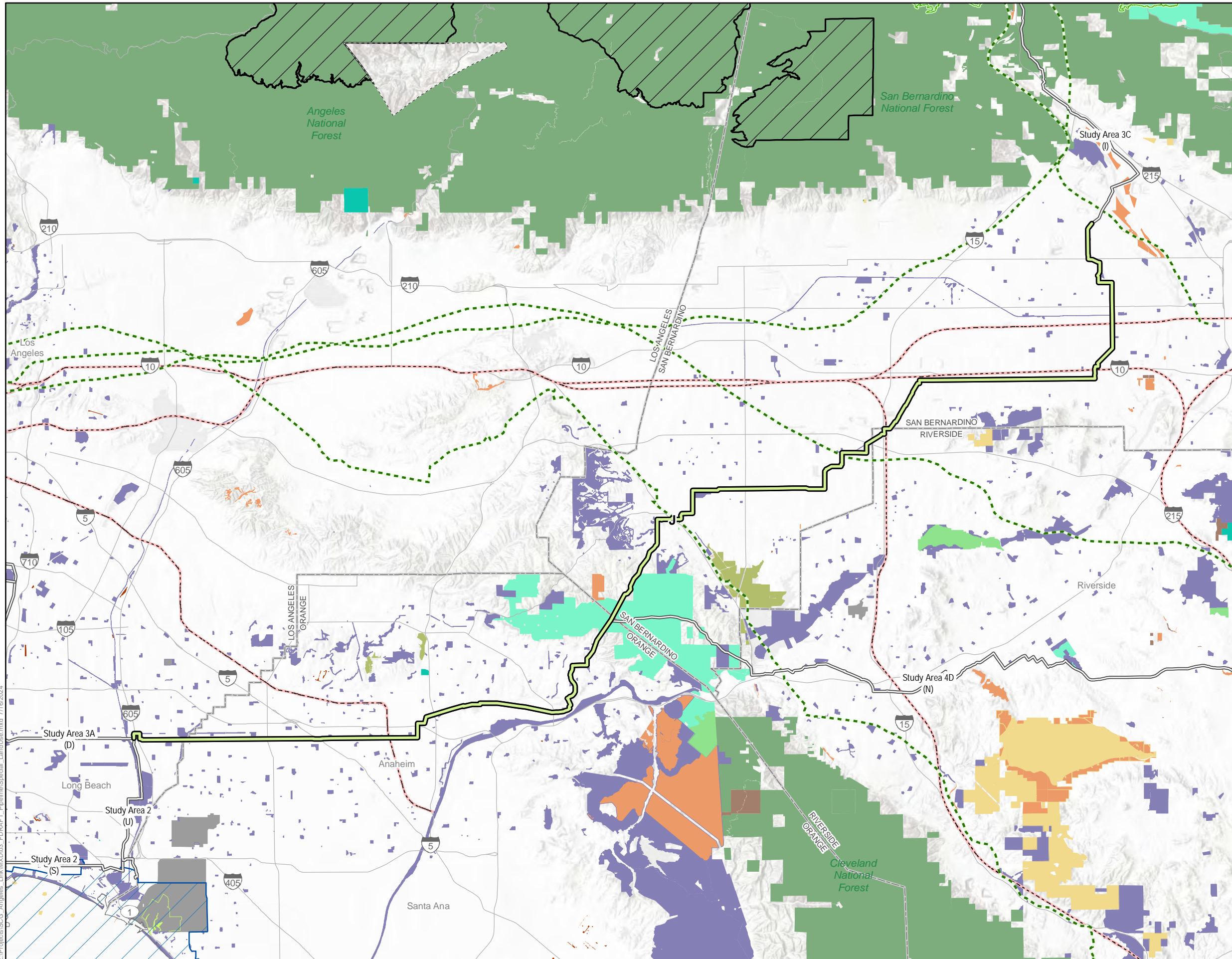
**INSIGNIA**  
ENVIRONMENTAL



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024

**Attachment F-1: Special Land Use Designations Map  
Study Area 3B**

**Angeles Link Phase 1  
Environmental Analysis**



- County Boundary
- - - California High-Speed Rail Alignments
- ⋯ 20-Mile Project Buffer
- Segment**
- J
- California Landownership**
- U.S. Forest Service
- U.S. Fish and Wildlife Service
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- Private (Conservation-Related Land)
- U.S. Military/Defense
- Protected Areas**
- Conservation Easements
- ▨ Wilderness Areas
- ▭ Coastal Zone
- Pacific Crest Trail
- ⋯ Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.



SoCalGas INSIGNIA ENVIRONMENTAL

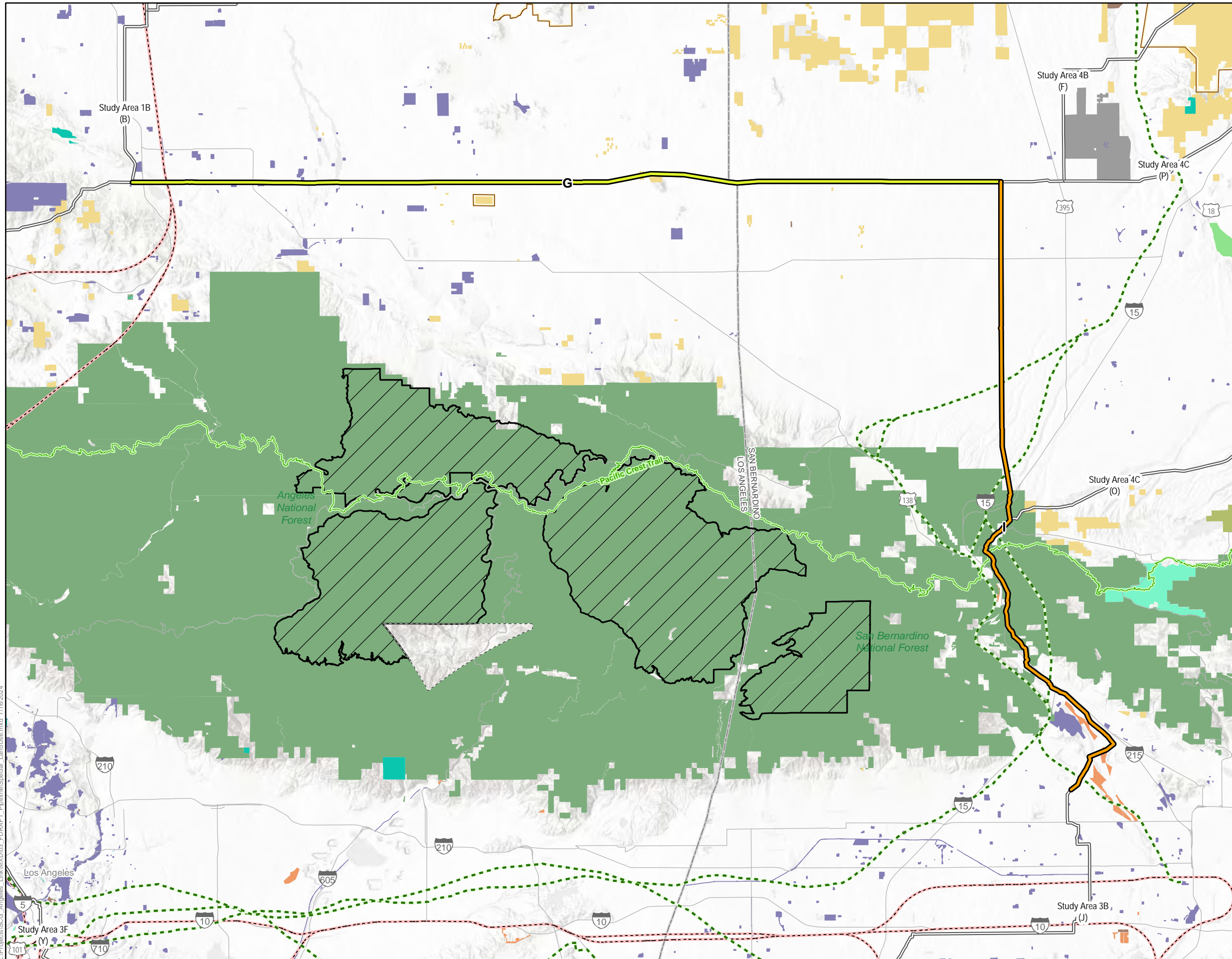
1:253,000

0 4 8 Miles

Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024

**Attachment F-1: Special Land Use Designations Map  
Study Area 3C**

**Angeles Link Phase 1  
Environmental Analysis**



- County Boundary
- - - California High-Speed Rail Alignments
- ⋯ 20-Mile Project Buffer
- Segment**
- G
- I
- California Landownership**
- U.S. Forest Service
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- Private (Conservation-Related Land)
- U.S. Military/Defense
- Protected Areas**
- Conservation Easements
- BLM Areas of Critical Environmental Concern
- Wilderness Areas
- Pacific Crest Trail
- Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.



SoCalGas INSIGNIA ENVIRONMENTAL

1:275,000

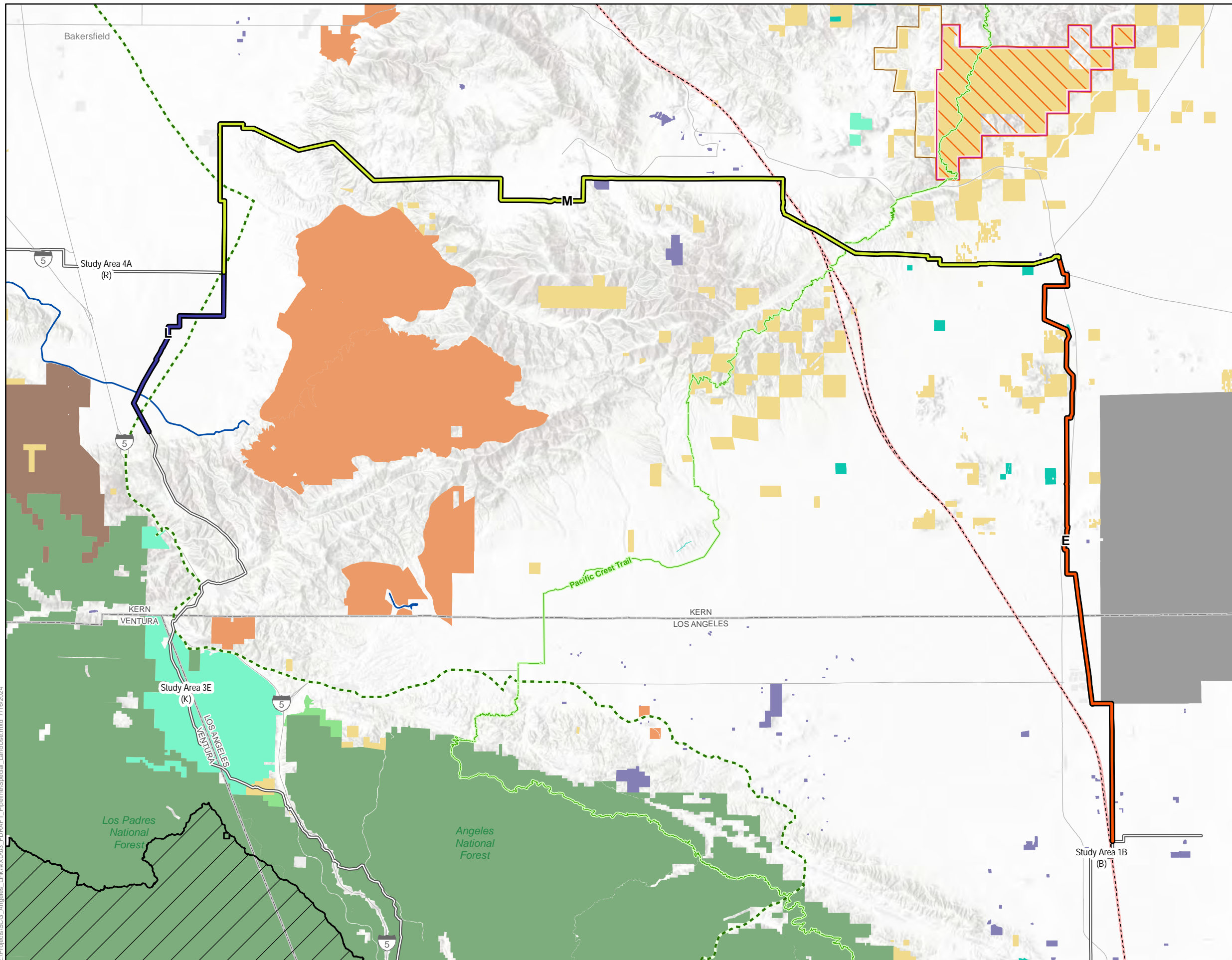
0 4.5 9 Miles

Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024



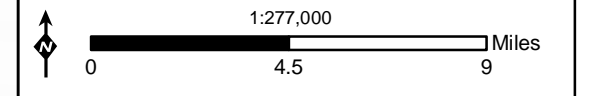
**Attachment F-1: Special Land Use Designations Map  
Study Area 3D**

**Angeles Link Phase 1  
Environmental Analysis**

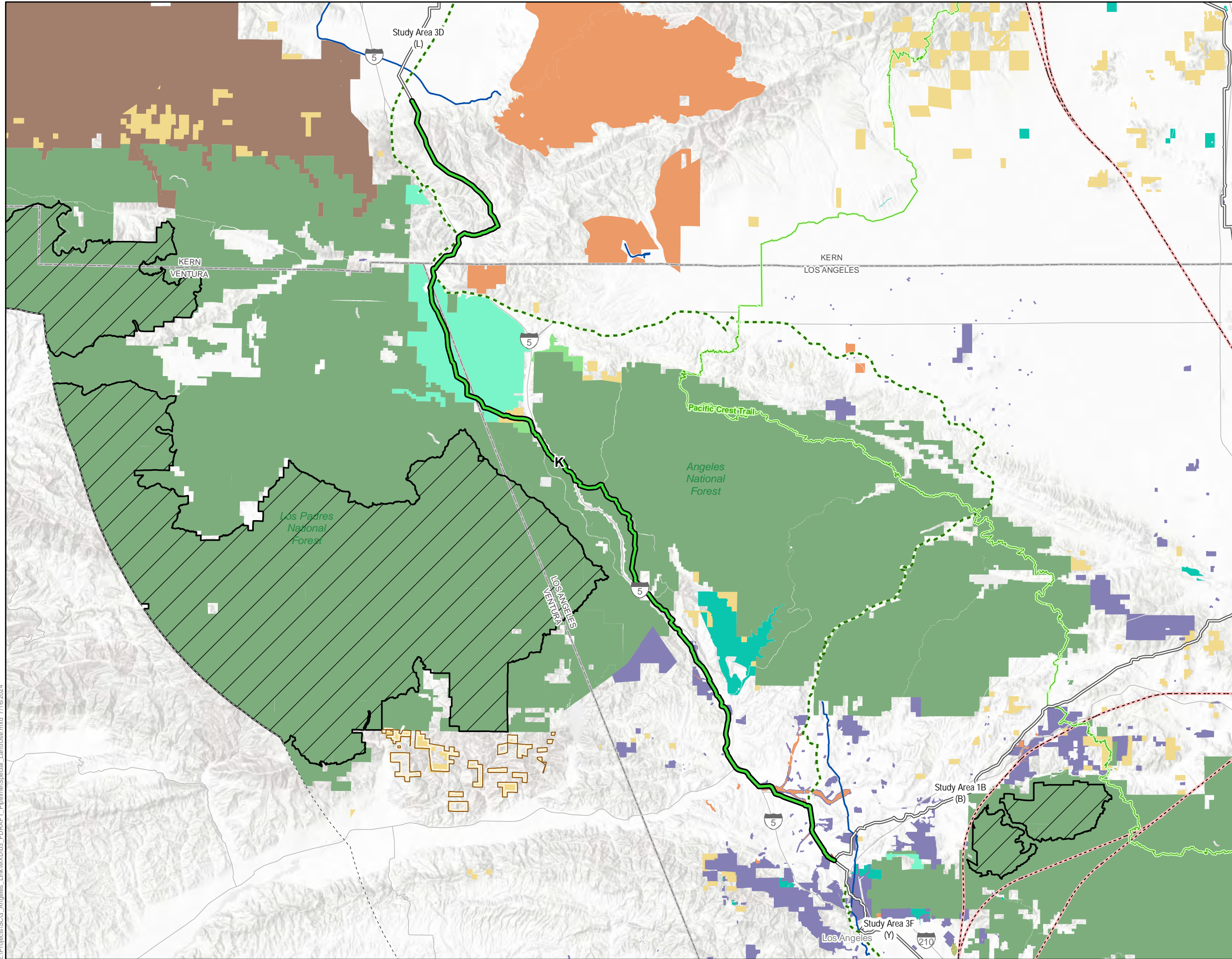


- County Boundary
- - - California High-Speed Rail Alignments
- ⋯ 20-Mile Project Buffer
- Segment**
- E
- L
- M
- California Landownership**
- U.S. Forest Service
- U.S. Bureau of Land Management (BLM)
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- U.S. Military/Defense
- Protected Areas**
- Conservation Easements
- BLM Areas of Critical Environmental Concern
- BLM California Desert National Conservation Lands
- Wilderness Areas
- National Monument
- Aqueduct
- Pacific Crest Trail
- ⋯ Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024

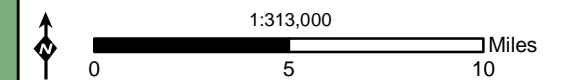


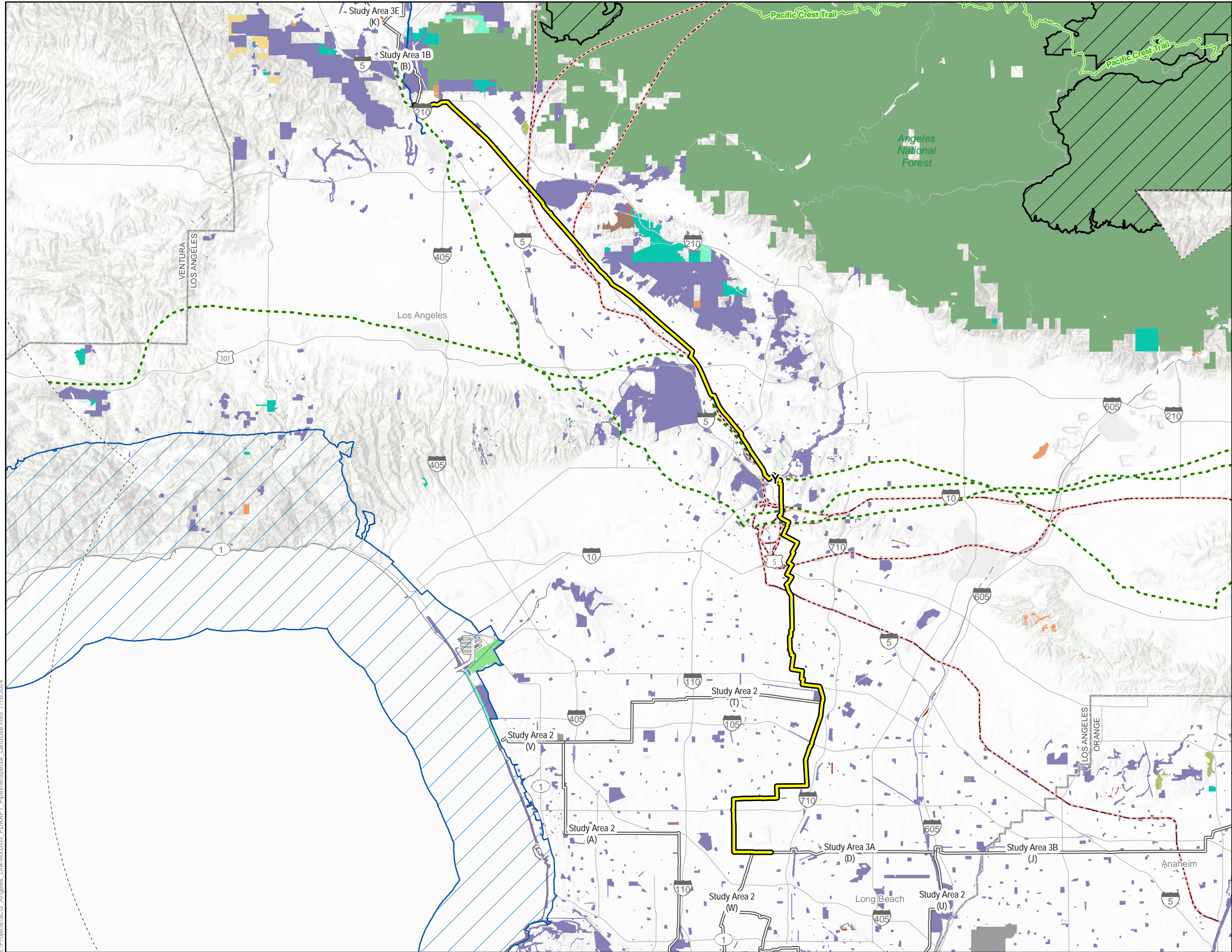
**Attachment F-1: Special Land Use Designations Map  
Study Area 3E**

**Angeles Link Phase 1  
Environmental Analysis**

- County Boundary
- - - California High-Speed Rail Alignments
- - - 20-Mile Project Buffer
- Segment**
- K
- California Landownership**
- U.S. Forest Service
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- Private (Conservation-Related Land)
- Protected Areas**
- Conservation Easements
- BLM Areas of Critical Environmental Concern
- Wilderness Areas
- Aqueduct
- Pacific Crest Trail
- - - Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.





**Attachment F-1: Special Land Use Designations Map  
Study Area 3F**

**Angeles Link Phase 1  
Environmental Analysis**

- County Boundary
- - - California High-Speed Rail Alignments
- ⋯ 20-Mile Project Buffer
- Segment**
- Y
- California Landownership**
- U.S. Forest Service
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- Private (Conservation-Related Land)
- U.S. Military/Defense
- Protected Areas**
- Conservation Easements
- ▭ Wilderness Areas
- ▭ Coastal Zone
- Aqueduct
- Pacific Crest Trail
- ⋯ Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.



SoCalGas INSIGNIA ENVIRONMENTAL

1:264,000

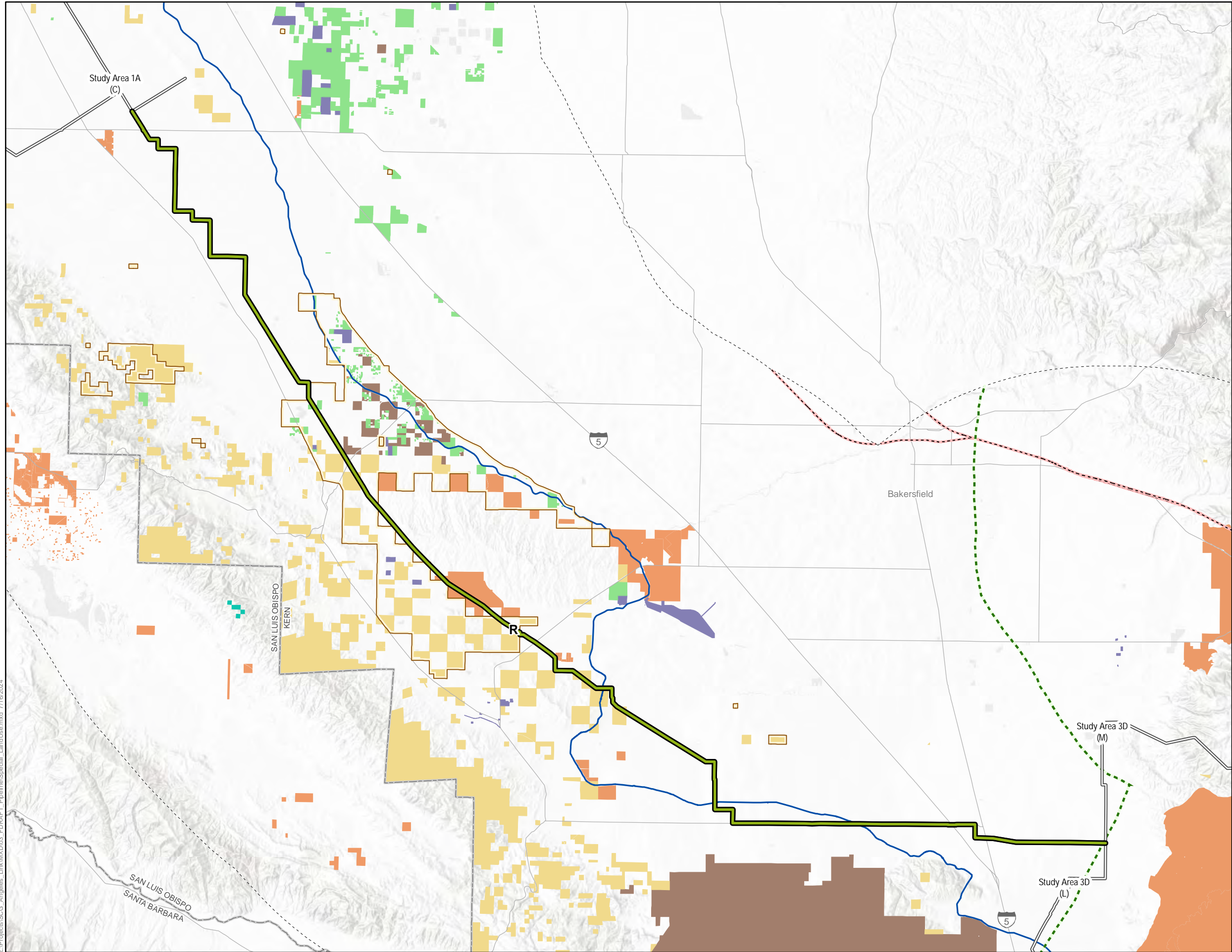
0 4.5 9 Miles

Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024

**Attachment F-1: Special Land Use Designations Map  
Study Area 4A**


**Angeles Link Phase 1  
Environmental Analysis**


- County Boundary
- - - California High-Speed Rail Alignments
- - - 20-Mile Project Buffer
- Segment**
- R
- California Landownership**
- U.S. Bureau of Land Management (BLM)
- Non-Governmental Organization
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- Protected Areas**
- Conservation Easements
- BLM Areas of Critical Environmental Concern
- Aqueduct
- Historic Trail



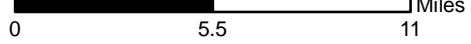
Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.







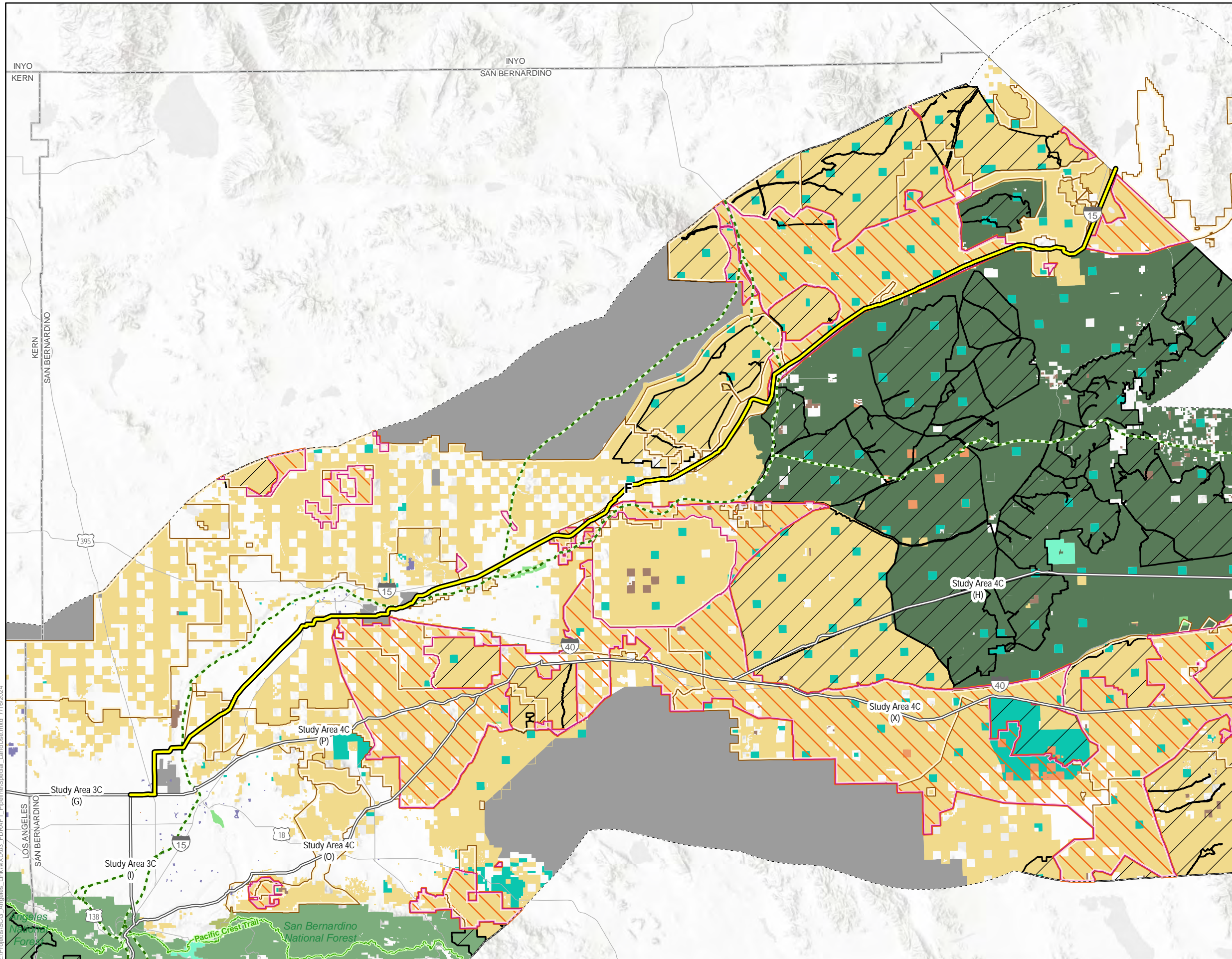
1:338,000



0 5.5 11 Miles

**Attachment F-1: Special Land Use Designations Map  
Study Area 4B**

**Angeles Link Phase 1  
Environmental Analysis**



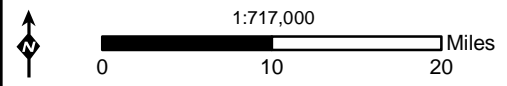
- County Boundary
- - - 20-Mile Project Buffer
- Segment**
- F
- California Landownership**
- National Park Service
- U.S. Forest Service
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- Private (Conservation-Related Land)
- U.S. Military/Defense
- Protected Areas**
- Conservation Easements
- BLM Areas of Critical Environmental Concern
- BLM California Desert National Conservation Lands
- Wilderness Areas
- National Monument
- Pacific Crest Trail
- Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.



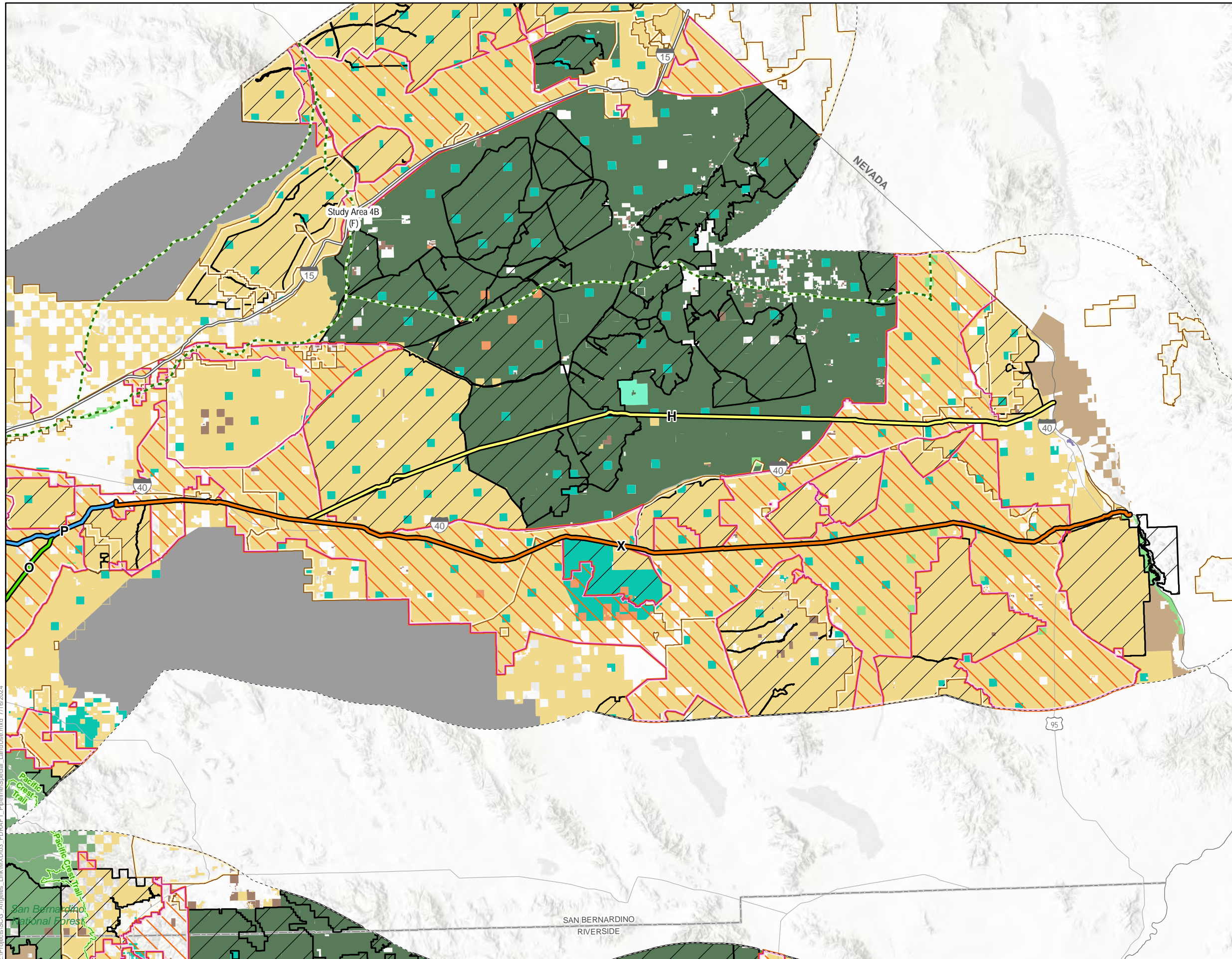
Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024

**SoCalGas** **INSIGNIA**  
ENVIRONMENTAL



**Attachment F-1: Special Land Use Designations Map  
Study Area 4C (East)**

**Angeles Link Phase 1  
Environmental Analysis**

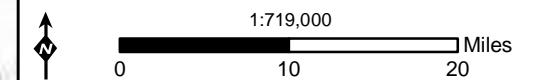


- County Boundary
- - - 20-Mile Project Buffer
- Segment**
- H
- O
- P
- X
- California Landownership**
- National Park Service
- U.S. Forest Service
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- U.S. Military/Defense
- Bureau Indian Affairs
- Protected Areas**
- Conservation Easements
- BLM Areas of Critical Environmental Concern
- BLM California Desert National Conservation Lands
- Wilderness Areas
- National Monument
- Pacific Crest Trail
- Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.

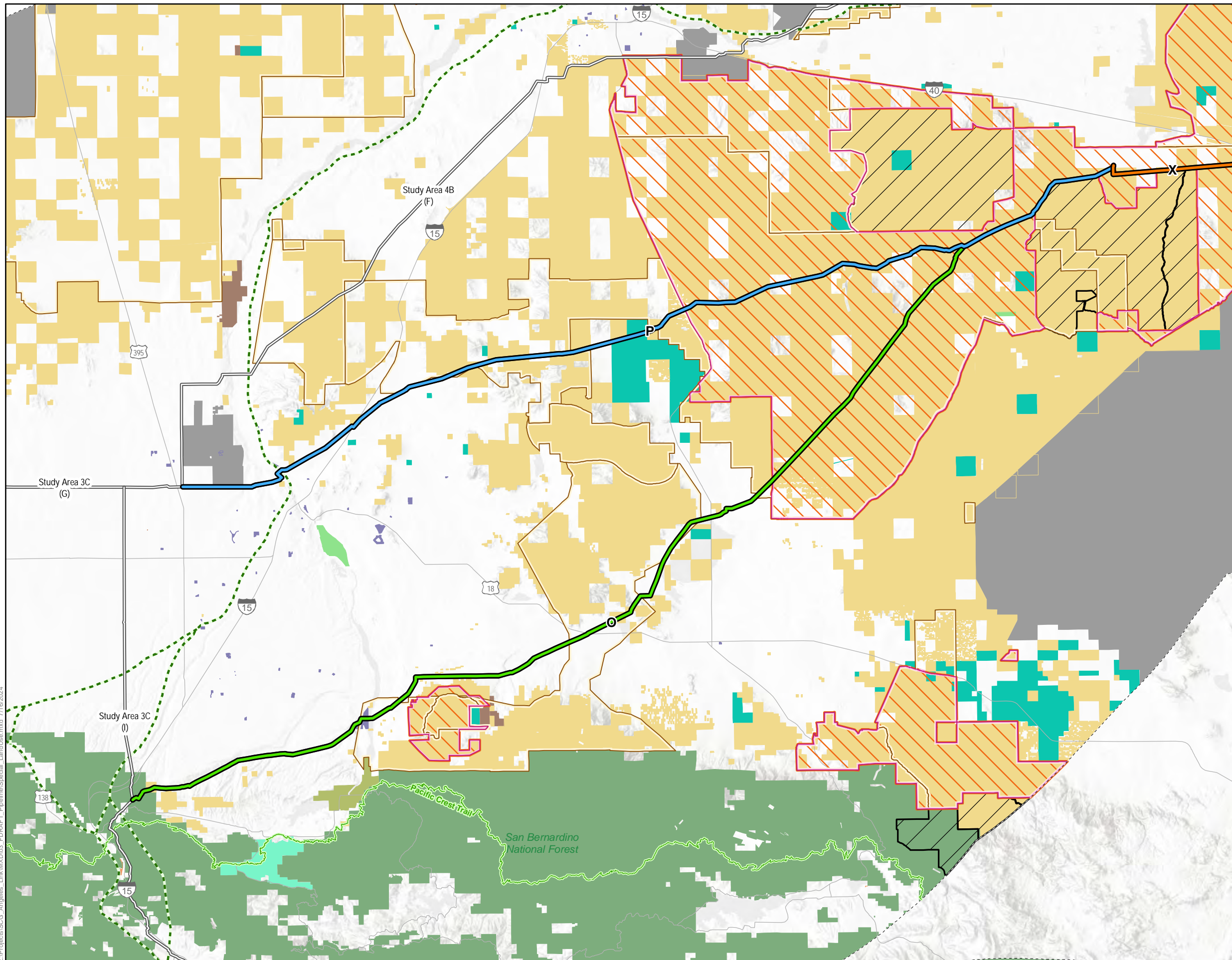


**INSIGNIA**  
ENVIRONMENTAL



**Attachment F-1: Special Land Use Designations Map  
Study Area 4C (West)**

**Angeles Link Phase 1  
Environmental Analysis**



--- 20-Mile Project Buffer

**Segment**

- O
- P
- X

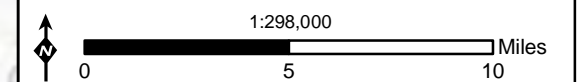
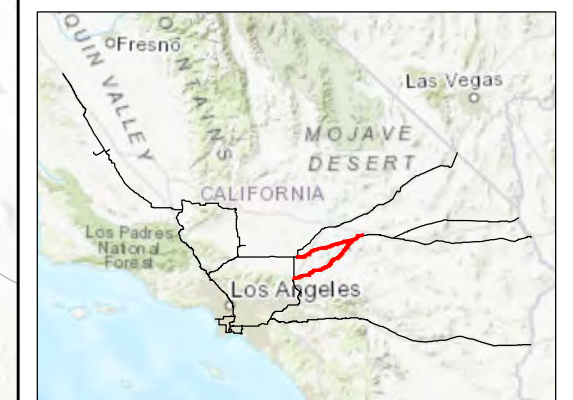
**California Landownership**

- U.S. Forest Service
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- Private (Conservation-Related Land)
- U.S. Military/Defense

**Protected Areas**

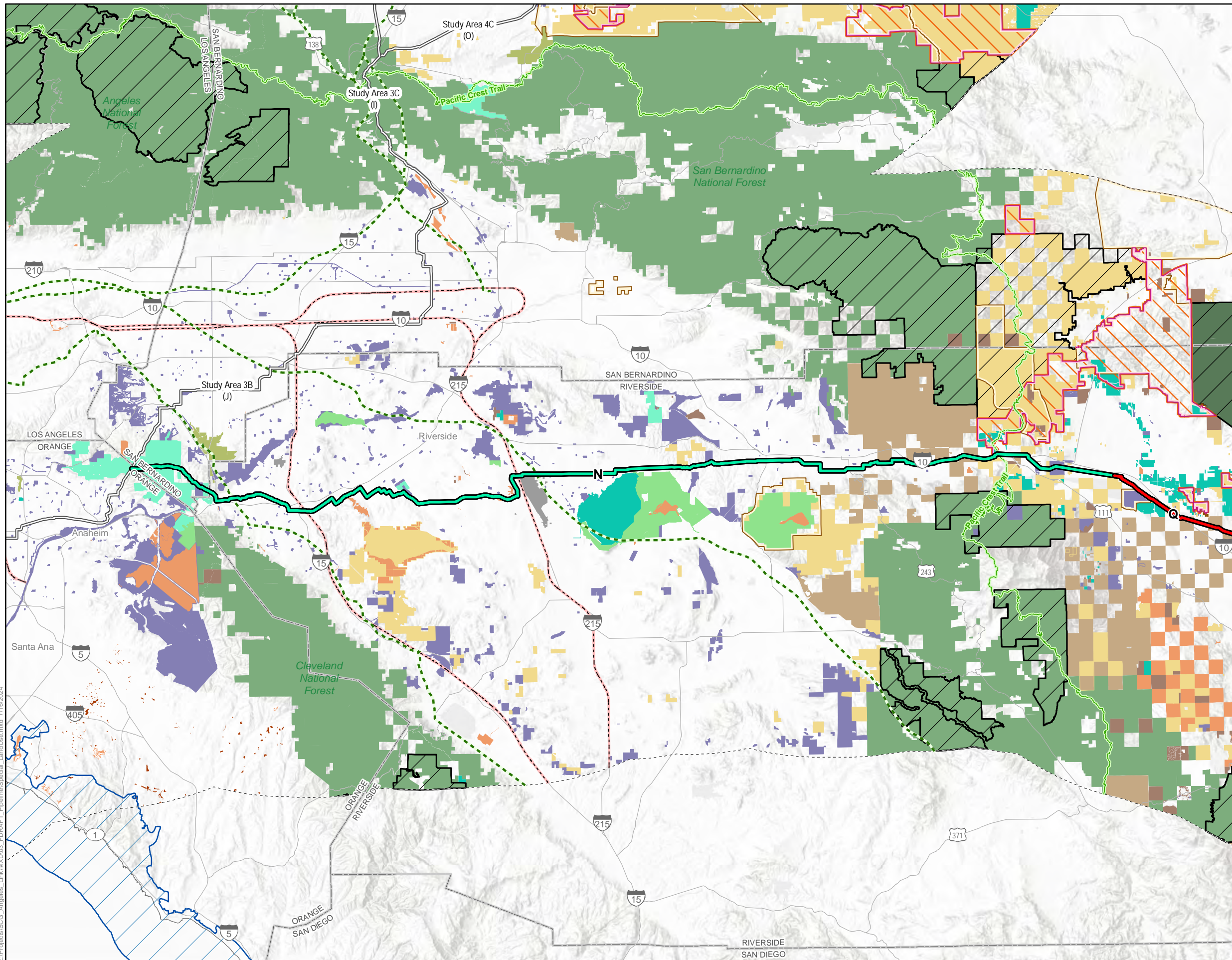
- ▨ Conservation Easements
- ▭ BLM Areas of Critical Environmental Concern
- ▭ BLM California Desert National Conservation Lands
- ▭ Wilderness Areas
- ▭ National Monument
- Pacific Crest Trail
- - - Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.



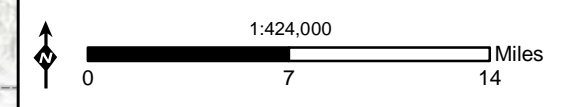
**Attachment F-1: Special Land Use Designations Map  
Study Area 4D (West)**

**Angeles Link Phase 1  
Environmental Analysis**



- County Boundary
- - - California High-Speed Rail Alignments
- ⋯ 20-Mile Project Buffer
- Segment**
- N
- Q
- California Landownership**
- National Park Service
- U.S. Forest Service
- U.S. Bureau of Land Management (BLM)
- Other Federal Land
- Non-Governmental Organization
- California Department of Parks and Recreation
- California Department of Fish and Wildlife (CDFW)
- Other State Land
- City/County
- Private (Conservation-Related Land)
- U.S. Military/Defense
- Bureau Indian Affairs
- Protected Areas**
- Conservation Easements
- BLM Areas of Critical Environmental Concern
- BLM California Desert National Conservation Lands
- Wilderness Areas
- National Monument
- Coastal Zone
- Pacific Crest Trail
- ⋯ Historic Trail

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.

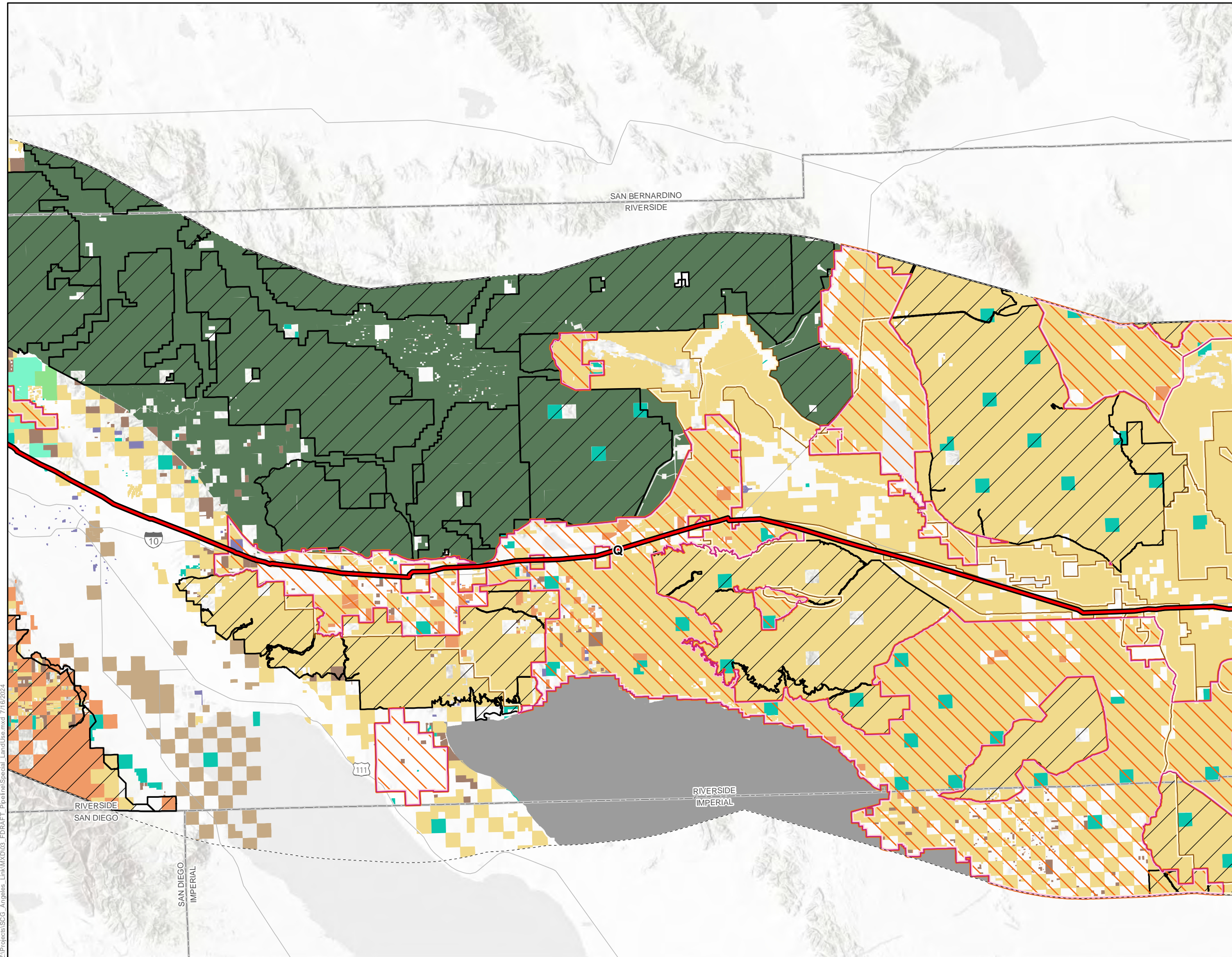


Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024



**Attachment F-1: Special Land Use Designations Map  
Study Area 4D (East)**

**Angeles Link Phase 1  
Environmental Analysis**



- County Boundary
- - - 20-Mile Project Buffer
- Segment**
- █ Q
- California Landownership**
- █ National Park Service
- █ U.S. Bureau of Land Management (BLM)
- █ Non-Governmental Organization
- █ California Department of Parks and Recreation
- █ California Department of Fish and Wildlife (CDFW)
- █ Other State Land
- █ City/County
- █ U.S. Military/Defense
- █ Bureau Indian Affairs
- Protected Areas**
- █ Conservation Easements
- BLM Areas of Critical Environmental Concern
- BLM California Desert National Conservation Lands
- Wilderness Areas
- National Monument

Note: The land use data presented on this map is confined to a 20-mile buffer around each study area.



Z:\Projects\SCG\_Angelies\_Link\MXD\03\_FDRAFT\_Pipeline\Special\_LandUse.mxd 7/16/2024

1:424,000

0 7 14 Miles

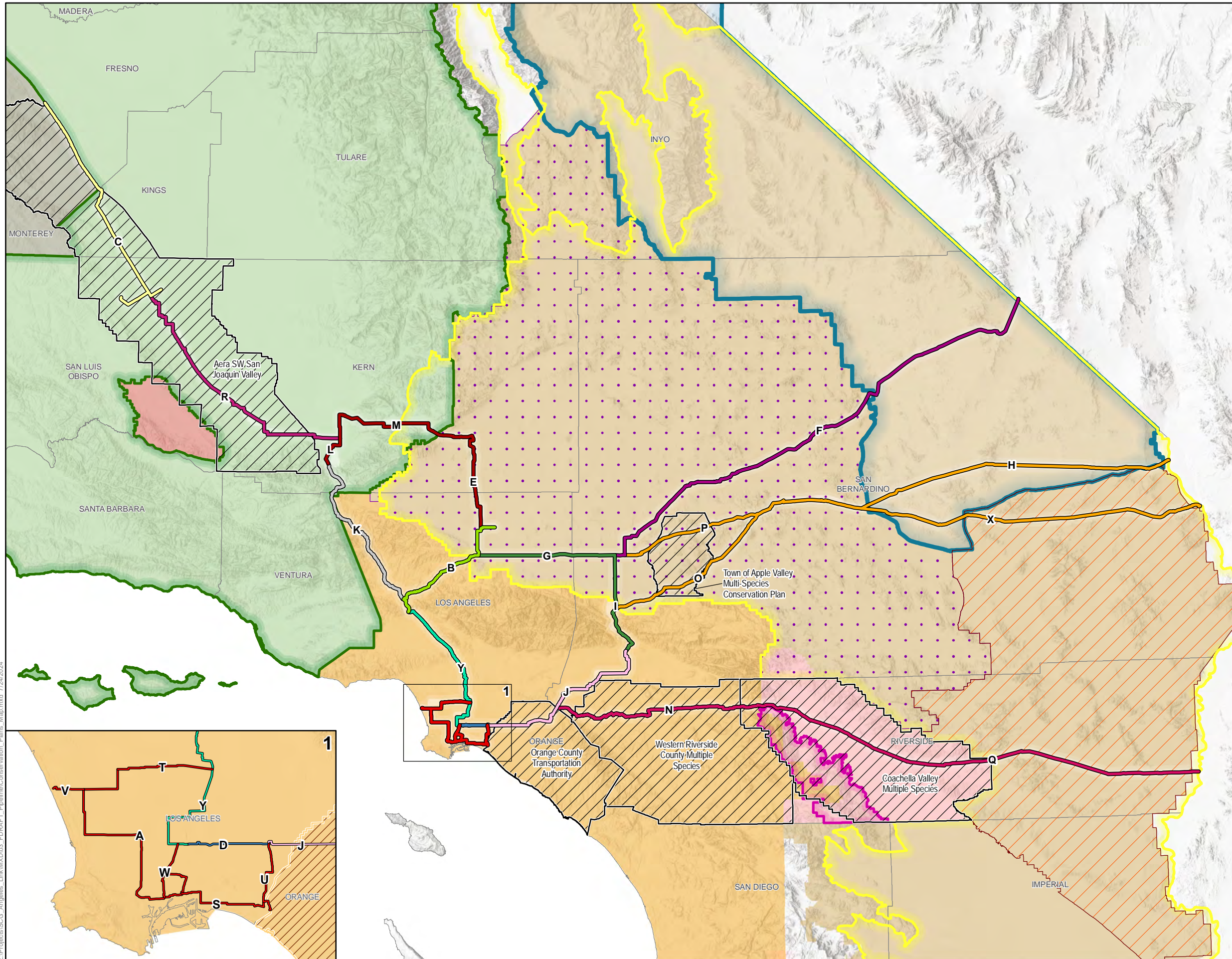


**ATTACHMENT F-2: MANAGEMENT AND CONSERVATION PLANS MAP**



**Attachment F-2: Management and Conservation Plans Map**

**Angeles Link Phase 1 Environmental Analysis**



- County
- HCP/NCCP
- Study Area**
- 1A
- 1B
- 2
- 3A
- 3B
- 3C
- 3D
- 3E
- 3F
- 4A
- 4B
- 4C
- 4D
- BLM Land Use Plans**
- Bakersfield Resource Management Plan (RMP)
- California Desert Conservation Area Plan (CDCAP)
- CDCAP Amendment for the Coachella Valley
- Desert Renewable Energy Conservation Plan
- Central Coast RMP
- Northern and Eastern Colorado Desert Coordinated Management Plan
- Northern & Eastern Mojave Desert Management Plan
- Santa Rosa/San Jacinto Mountains National Monument Management Plan
- South Coast RMP
- West Mojave Plan
- Carrizo Plain National Monument RMP

**Note:** This map displays boundaries for select management plans discussed in the Land Use and Planning sections of the Environmental Analysis but does not include all plans governing the land along the Evaluated Segments.



Z:\Projects\SCG\_Angeles\_Link\Map\Conservation\_Plans\_Map.mxd 7/24/2024

