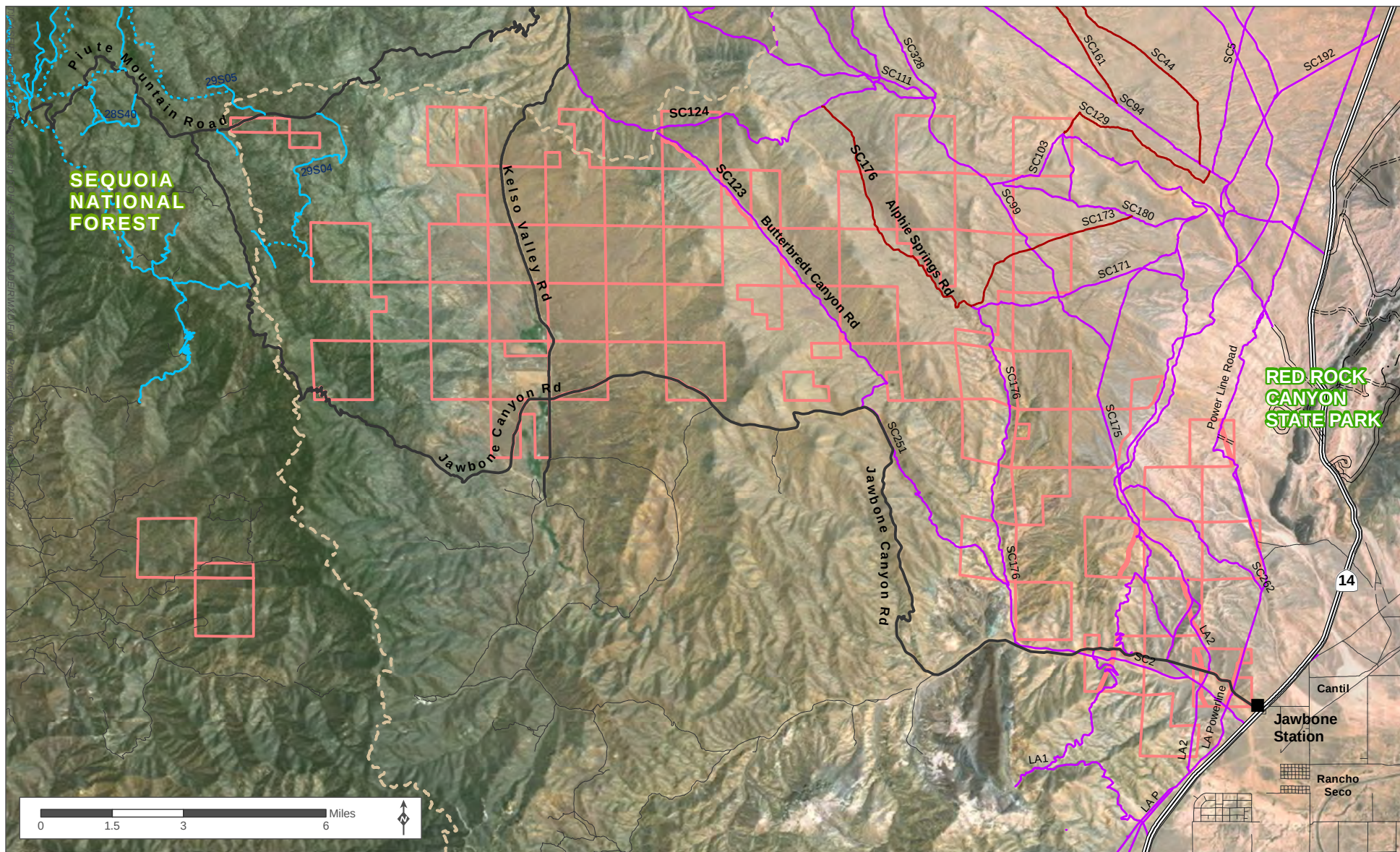




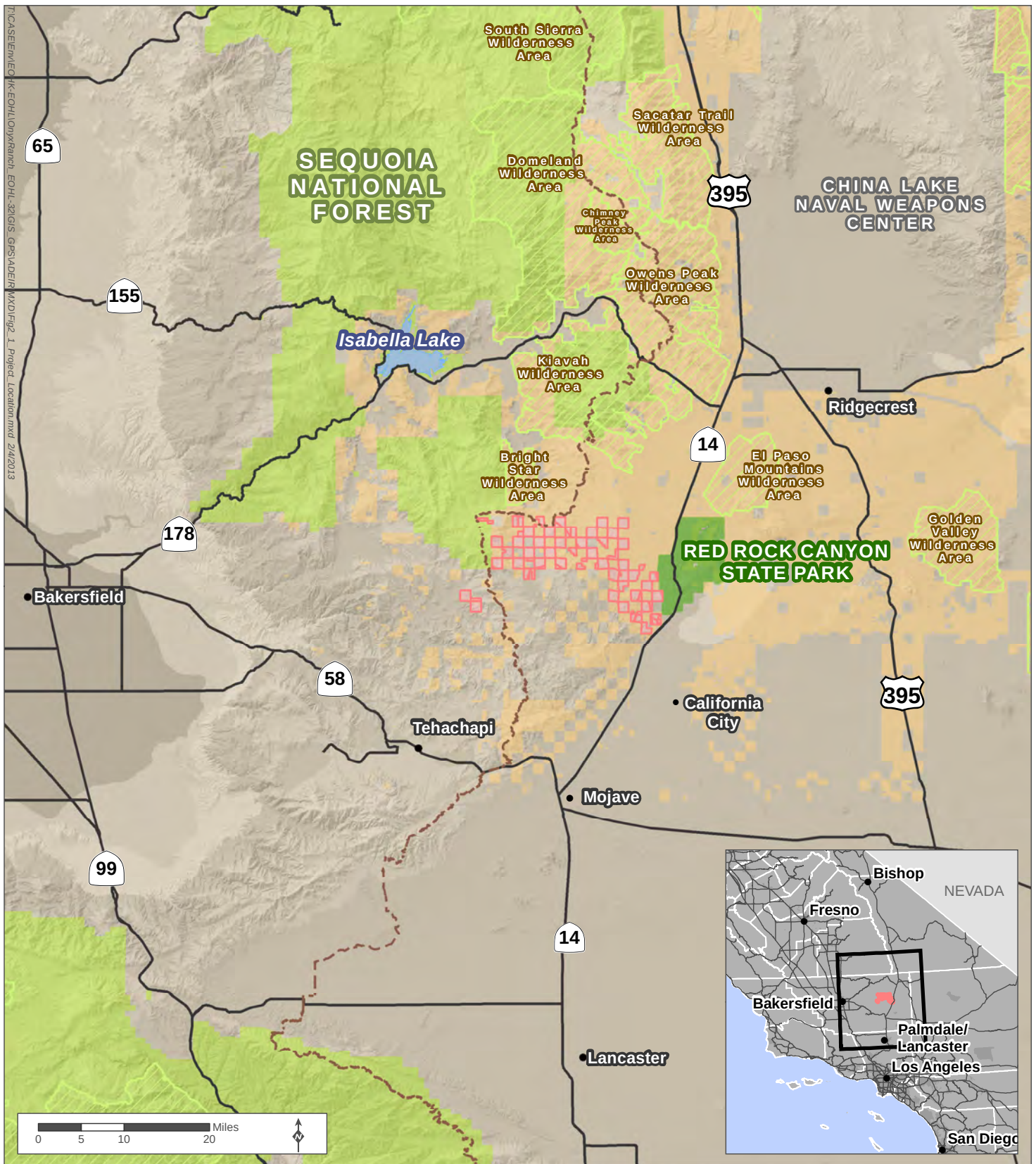
Source: USDA, Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> ■ Visitor Center ══ State Route — Local Roads — Other Local Roads — Pacific Crest Trail (USFS 2008) | <ul style="list-style-type: none"> □ Project Parcels — National Forest System Motorized Vehicle Trails — National Forest System Roads <p>BLM Designated Routes:</p> <ul style="list-style-type: none"> — ATV & MC Routes — 4 Wheel Drive Routes | <p>Red Rock Canyon State Park Routes</p> <ul style="list-style-type: none"> — Dirt Road (Primary) == 4-WD Recommended · · · Serious 4WD |
|---|---|---|



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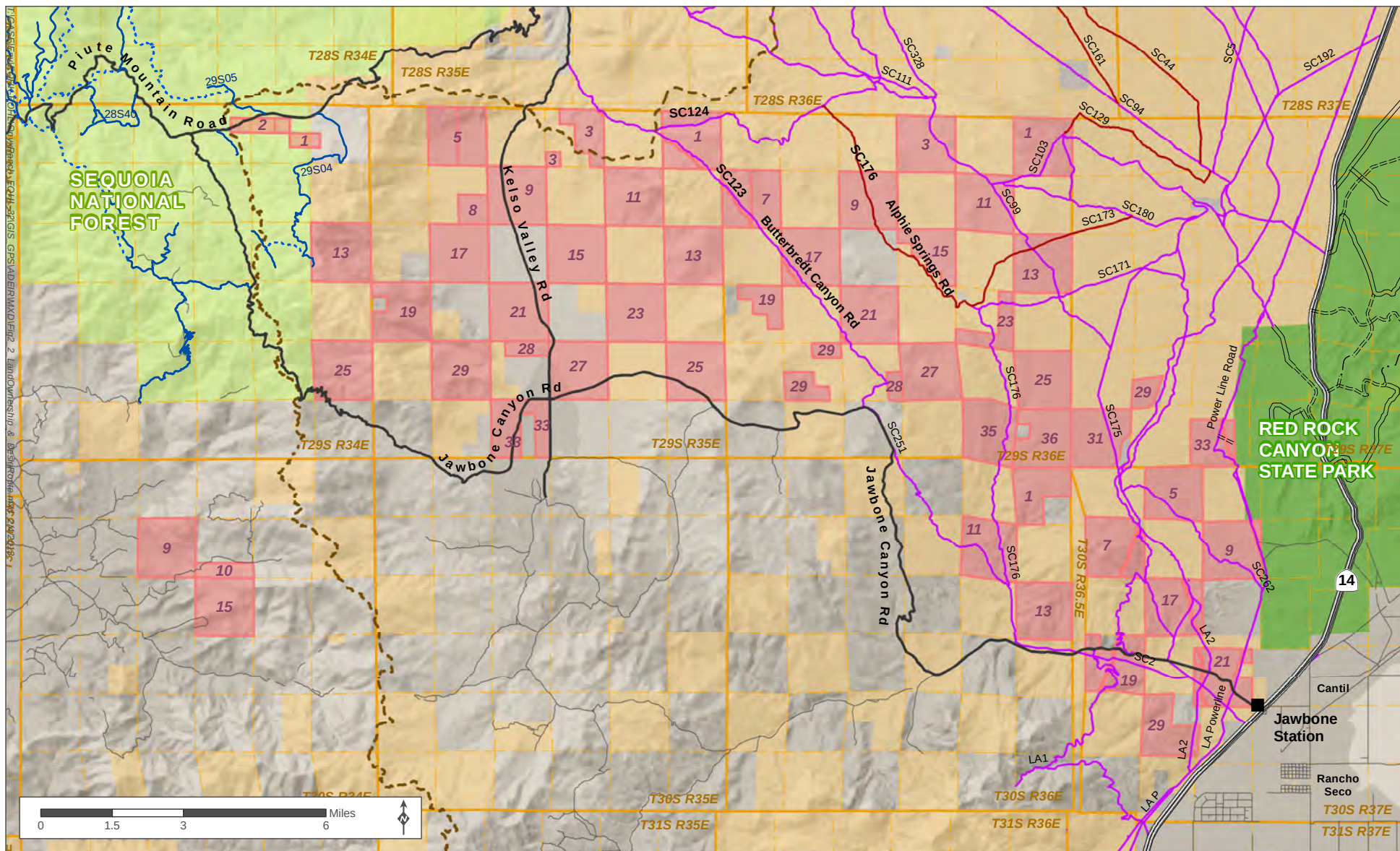
Figure 1-1 Project Area Aerial
Eastern Kern County Acquisition Draft EIR



- Major Roads
- Pacific Crest Trail
- Project Parcels
- Bureau of Land Management
- National Forest Land
- Federal Wilderness
- California State Parks

Figure 2-1 Project Location

Eastern Kern County Acquisition Draft EIR



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

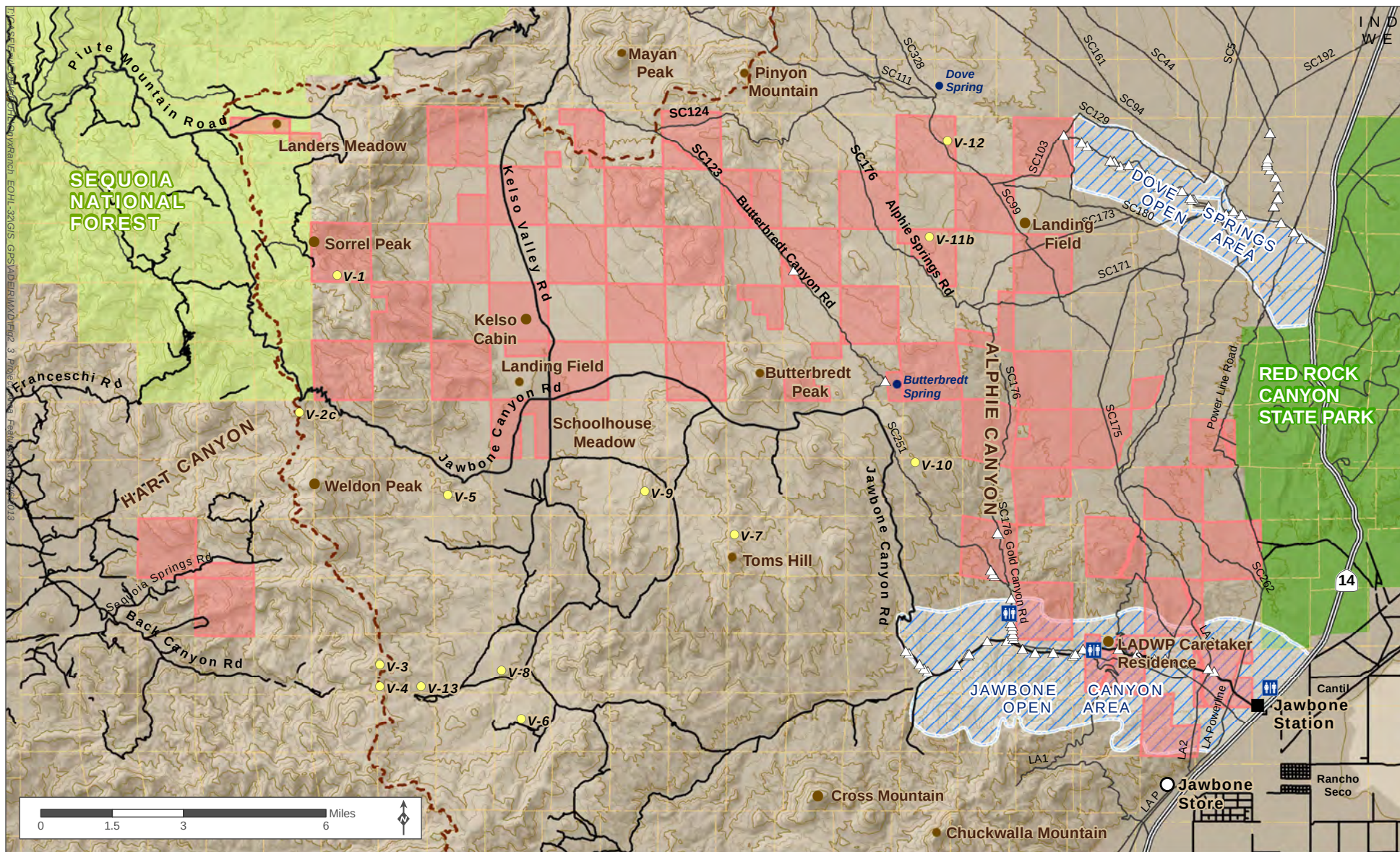
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|---|--|---|---|
| <ul style="list-style-type: none"> ■ Visitor Center ══ State Route — Local Roads — Other Local Roads — Pacific Crest Trail (USFS 2008) | <ul style="list-style-type: none"> ■ Project Parcels (Labeled by Section Number) ■ Bureau of Land Management ■ US Forest Service ■ California State Parks ■ Public Land Survey Sections (with Township and Range) | <ul style="list-style-type: none"> --- National Forest System Motorized Vehicle Trails — National Forest System Roads BLM Designated Routes: <ul style="list-style-type: none"> — ATV & MC Routes — 4 Wheel Drive Routes | <ul style="list-style-type: none"> Red Rock Canyon State Park Routes <ul style="list-style-type: none"> — Dirt Road (Primary) — 4-WD Recommended — 4-WD |
|---|--|---|---|



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Figure 2-2 Land Ownership and Designated Routes

Eastern Kern County Acquisition Draft EIR



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

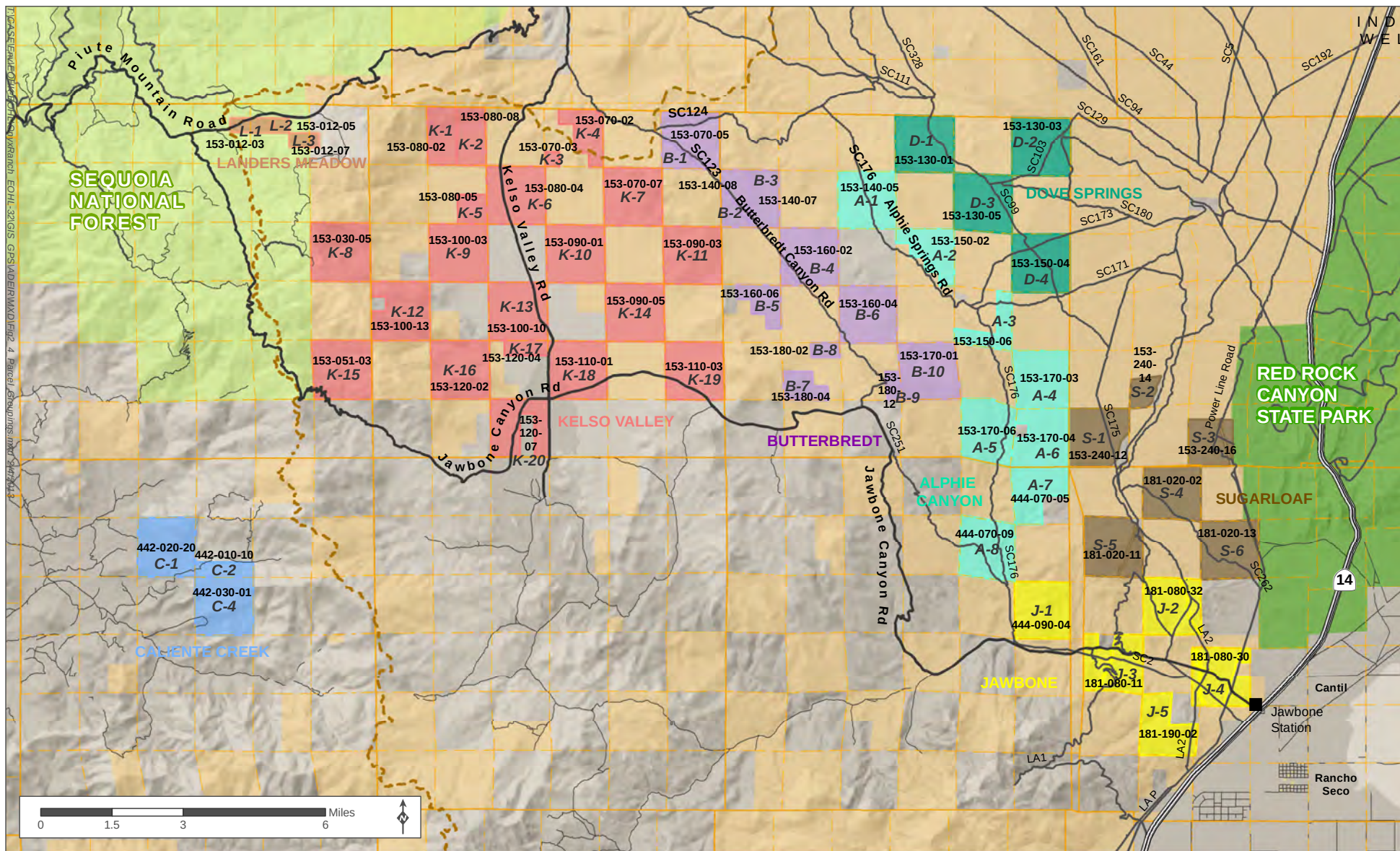
- | | | | |
|---------------------------------|-----------------------------|---|-----------------------|
| State Route | Open Area | Project Parcels | Project Area Features |
| Local Roads | California State Parks | City of Vernon Meteorological Tower Locations | Visitor Center |
| Other Local Roads | US Forest Service | Restrooms | Camp Areas |
| 4WD and OHV Routes | Public Land Survey Sections | | |
| Pacific Crest Trail (USFS 2008) | | | |



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Figure 2-3 Project Area Features

Eastern Kern County Acquisition Draft EIR

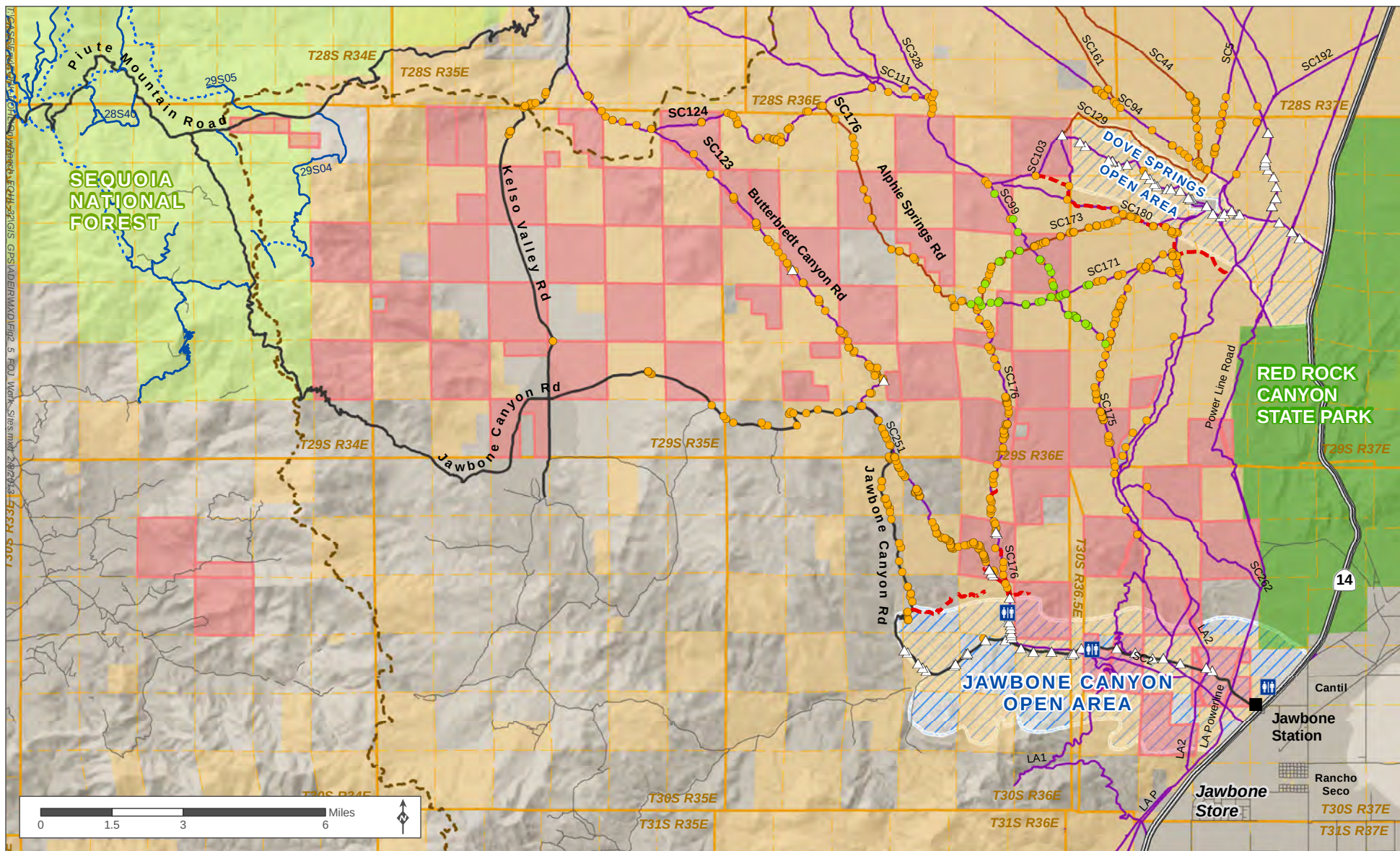


Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

- | | | | |
|---|---|--|--|
| <ul style="list-style-type: none"> Visitor Center State Route Local Roads Other Local Roads 4WD & OHV Designated Routes Pacific Crest Trail (USFS 2008) | <ul style="list-style-type: none"> California State Parks Bureau of Land Management US Forest Service Public Land Survey Sections | Project Parcel Groupings*
Grouping <ul style="list-style-type: none"> Alphie Canyon Butterbredt Caliente Creek | <ul style="list-style-type: none"> Dove Springs Jawbone Kelso Valley Landers Meadow Sugarloaf |
|---|---|--|--|

* Labeled by APN and Parcel ID Code

Figure 2-4 Parcel Groupings and APN
 Eastern Kern County Acquisition Draft EIR



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

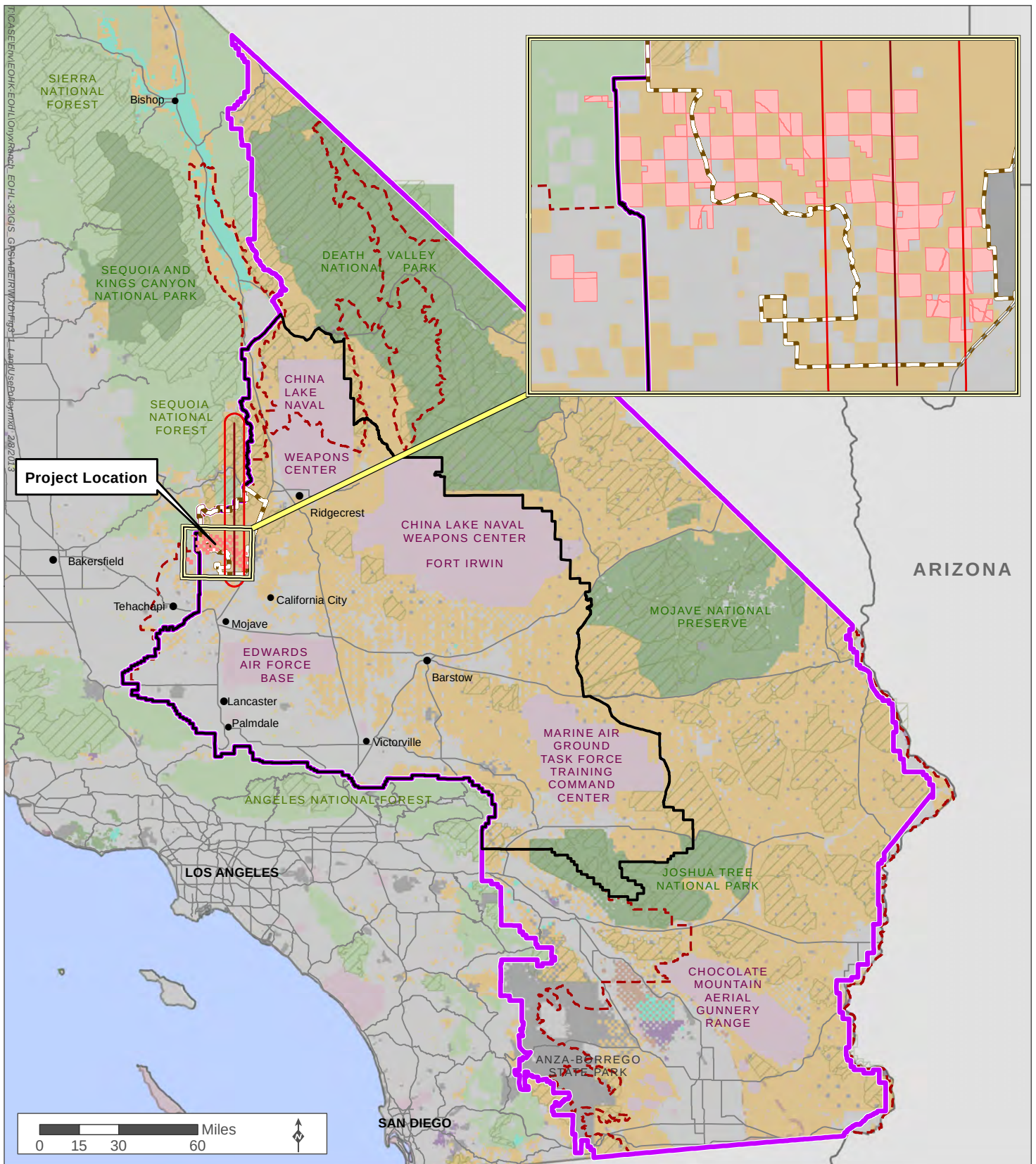
- | | | | |
|--|-------------------------------------|--|---|
| ■ Visitor Center | ══ State Route | --- National Forest Motorized Use Trails | ■ Project Parcels |
| --- FOJ Boundary fence lines | — Local Roads | — National Forest System Roads | ■ California State Parks |
| ● Restored With or Without Fencing Sites | — Other local roads | BLM Designated Routes | ■ Bureau of Land Management |
| ● Fencing Only Sites | --- Pacific Crest Trail (USFS 2008) | — 4 Wheel Drive Routes | ■ US Forest Service |
| △ Camp Areas | ■ Open Area | — ATV & MC Routes | --- Public Land Survey Sections (with Township and Range) |



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Figure 2-5 Friends of Jawbone Work Sites

Eastern Kern County Acquisition Draft EIR



Source: BLM, ESRI, DRECP, CA State Parks, US Air Force, TRA

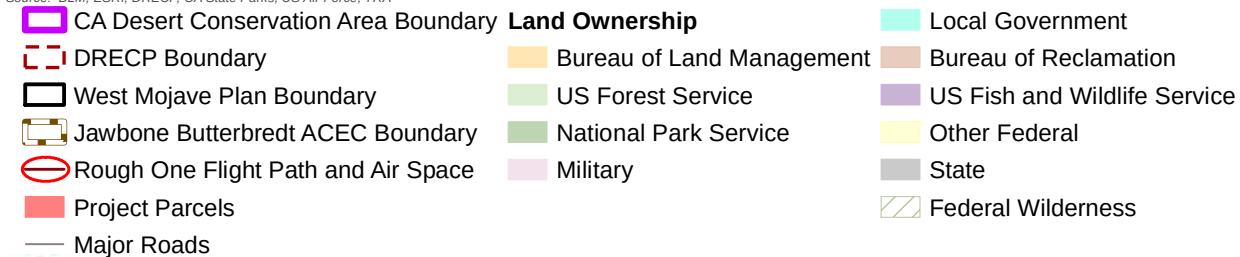
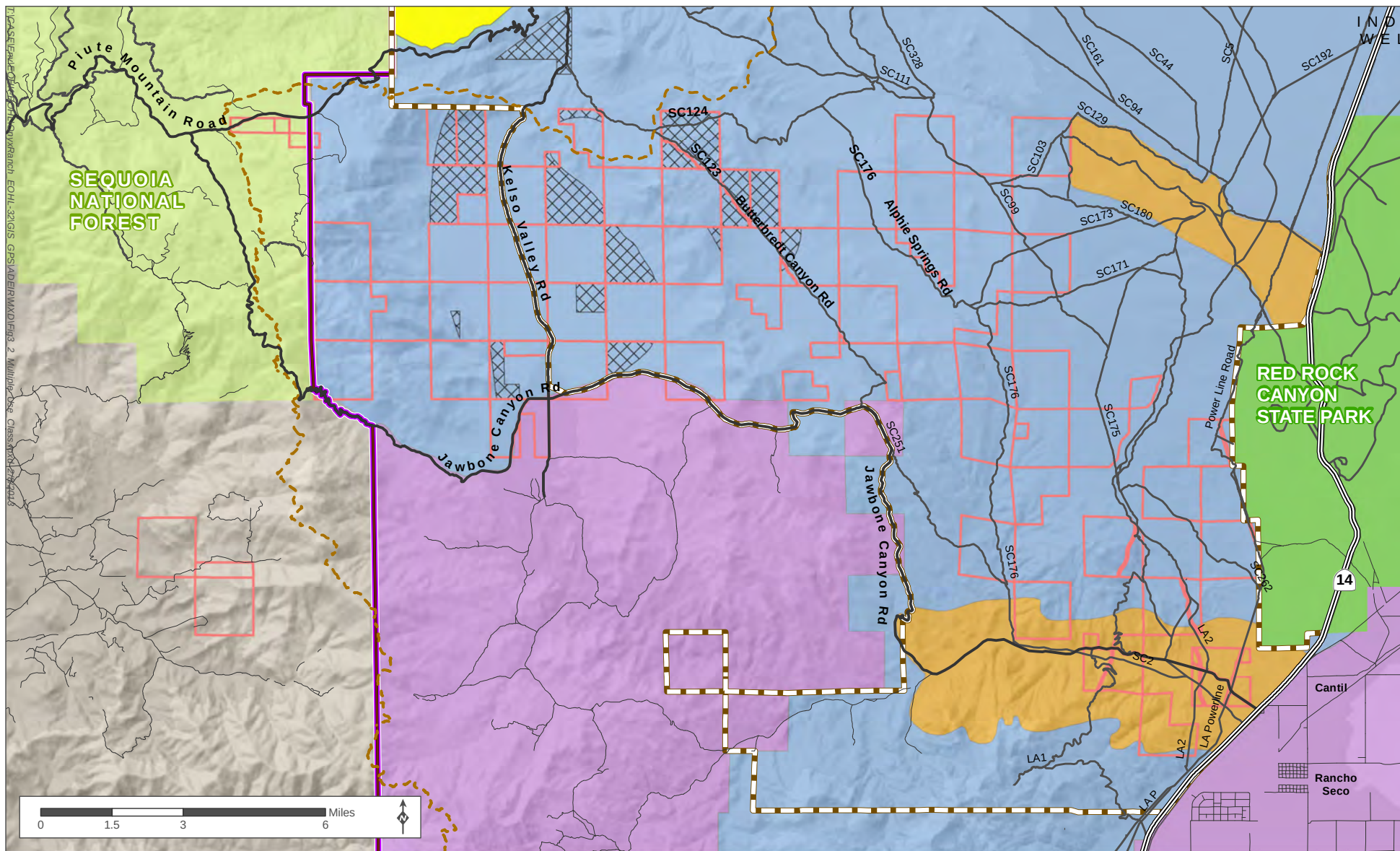


Figure 3-1 Federal Land Use Plan and Policy Boundaries

Eastern Kern County Acquisition Draft EIR



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

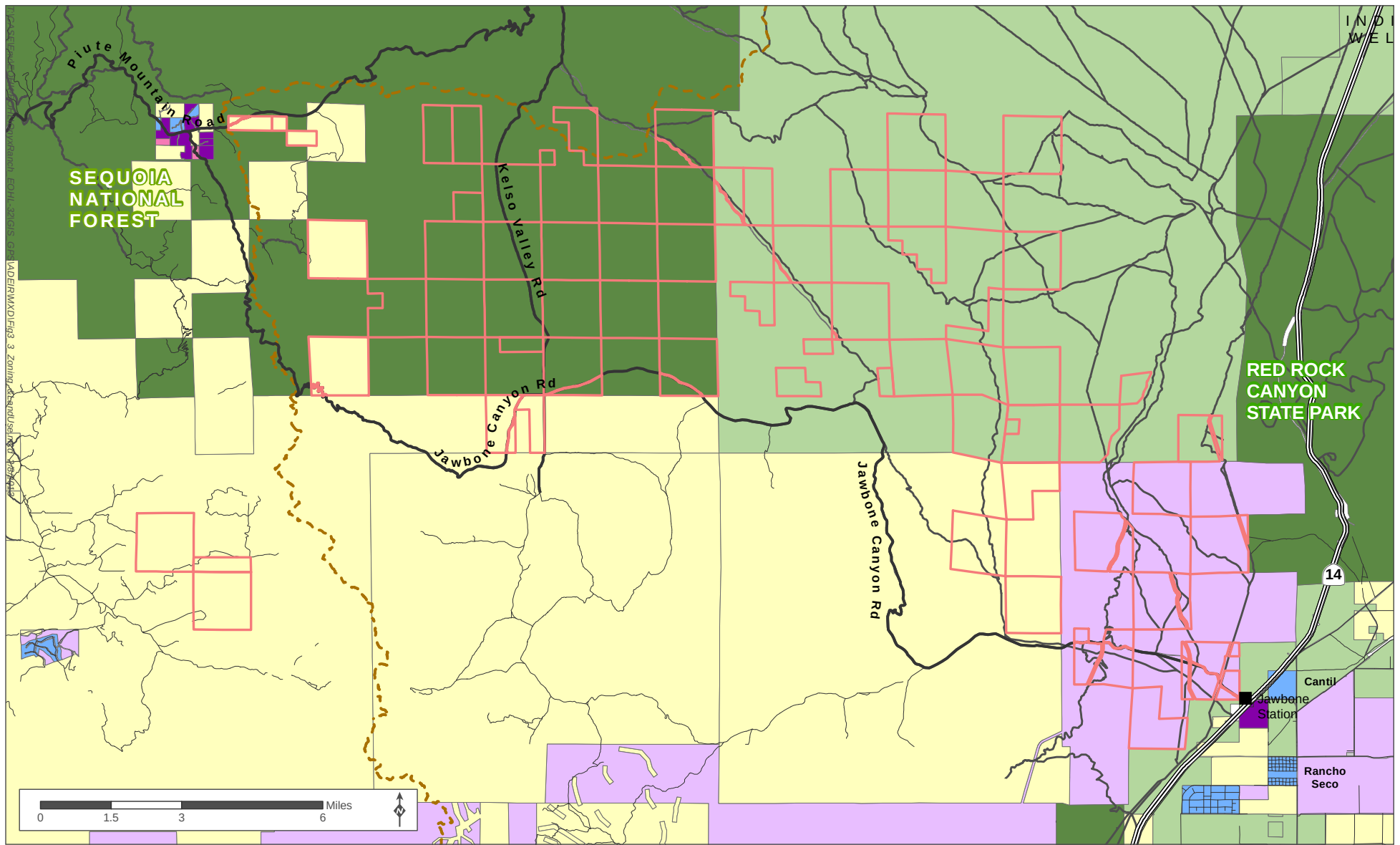
- | | | |
|---|--|--|
| <ul style="list-style-type: none"> State Route Local Roads Other Local Roads 4WD & OHV Designated Routes Pacific Crest Trail | <ul style="list-style-type: none"> California Desert Conservation Area Boundary West Mojave Plan Boundary Jawbone Butterbreth ACEC Boundary Bendire's Thrasher ACEC Project Parcels | BLM Defined Multiple Use Class <ul style="list-style-type: none"> Controlled Intensive Limited Unclassified |
|---|--|--|



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Figure 3-2 CDCA Multiple Use Classifications

Eastern Kern County Acquisition Draft EIR



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

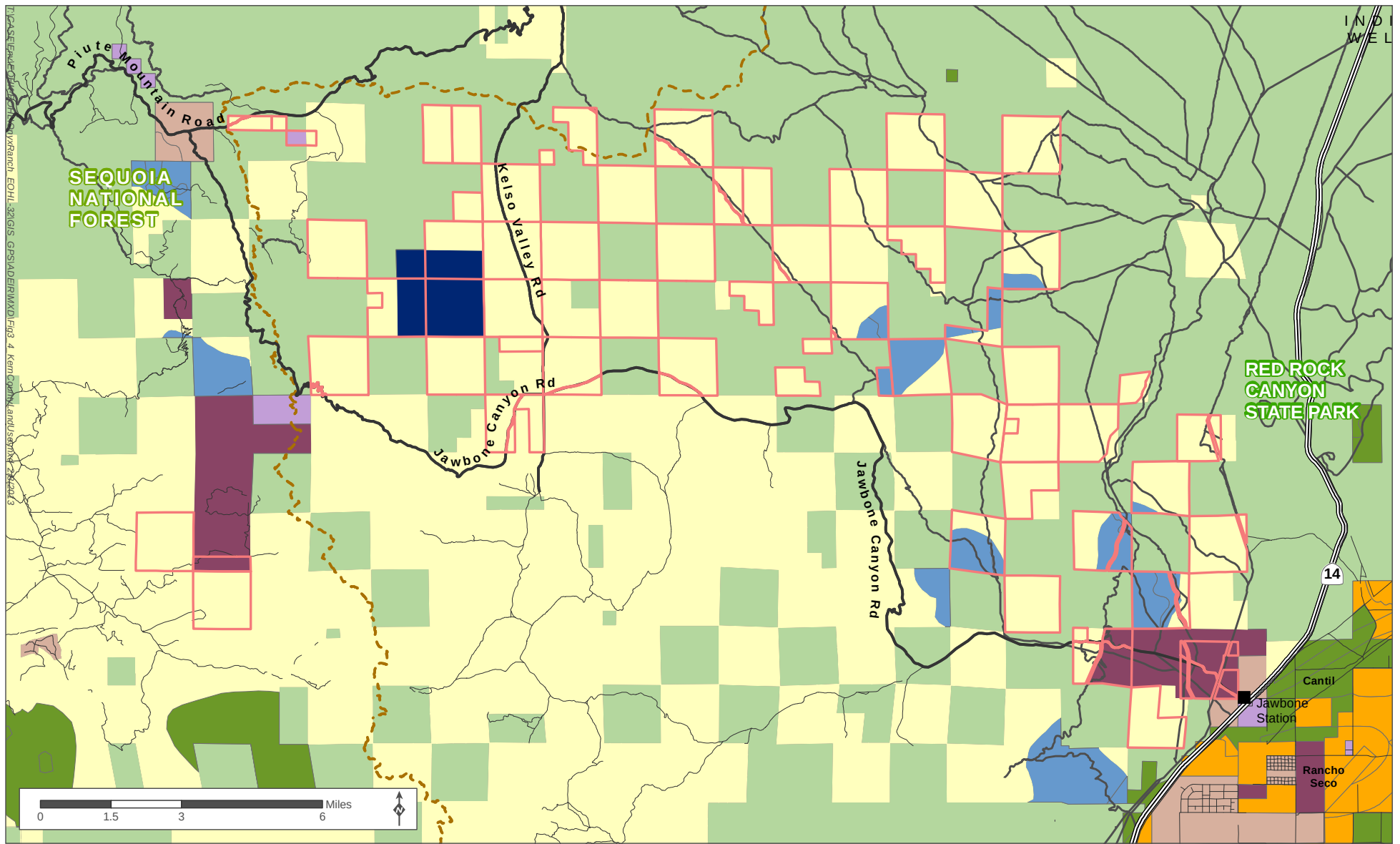
- | | | |
|-------------------------------|-----------------------------|----------------------------|
| ■ Visitor Center | □ Project Parcels | ■ E(2 1/2) (Estate) |
| ══ State Route | Kern County Zoning | ■ E(5) (Estate) |
| — Local Roads | ■ All other values | ■ E(10) (Estate) |
| — Other Local Roads | ■ A (Agriculture) | ■ E(20) (Estate) |
| — 4WD & OHV Designated Routes | ■ A-1 (Limited Agriculture) | ■ RF (Recreation-Forestry) |
| — Pacific Crest Trail | | |



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Figure 3-3 Kern County Zoning

Eastern Kern County Acquisition Draft EIR



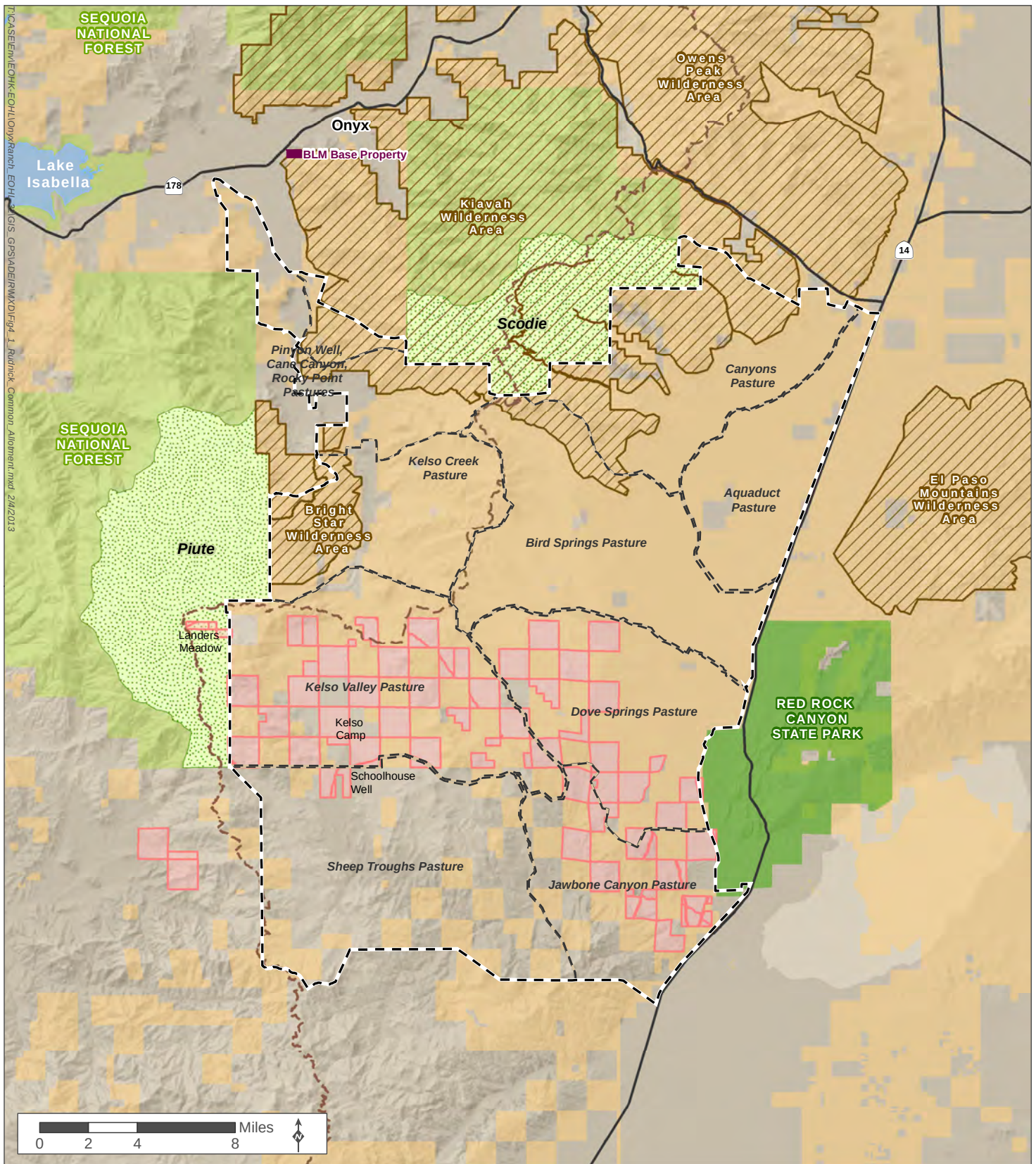
Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

- | | | | |
|---|--|---|---|
| <ul style="list-style-type: none"> Visitor Center State Route Local Roads Other Local Roads 4WD & OHV Designated Routes Pacific Crest Trail | <ul style="list-style-type: none"> Project Parcels <p>Kern County General Plan</p> <p>Land Use Description</p> <ul style="list-style-type: none"> Extensive Agriculture (Min. 20 Acre Parcel Size) Intensive Agriculture (Min. 20 Acre Parcel Size) | <ul style="list-style-type: none"> Mineral and Petroleum (Min. 5 Acre Parcel Size) Minimum 2.5 Gross Acres/Unit Minimum 5 Gross Acres/Unit Minimum 10 Gross Acres/Unit Minimum 20 Gross Acres/Unit | <ul style="list-style-type: none"> Resource Management (Min. 20 Acre Parcel Size) Specific Plan Required State or Federal Land |
|---|--|---|---|

Figure 3-4 Kern County General Plan Land Use Designations

Eastern Kern County Acquisition Draft EIR



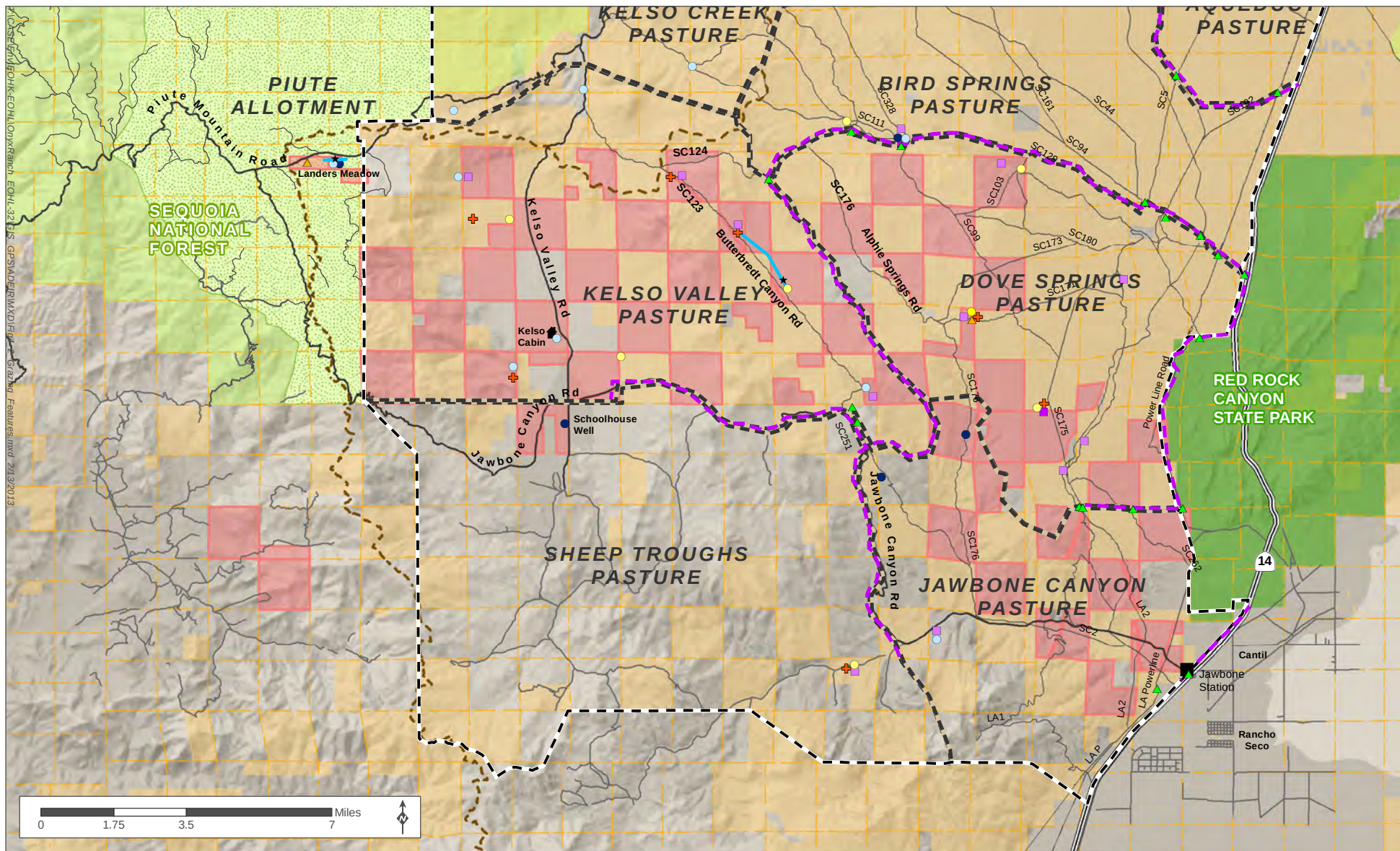


Source: BLM, ESRI, CA State Parks

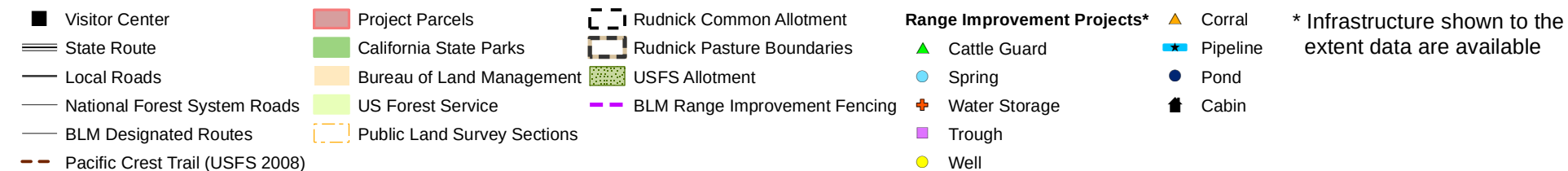
- | | | |
|-------------------------|---------------------------|-------------------------------------|
| — Major Roads | Project Parcels | — Rudnick Common Allotment Boundary |
| - - Pacific Crest Trail | Federal Wilderness | BLM Pasture Boundaries |
| | US Forest Service | USFS Allotment |
| | California State Parks | BLM Base Property |
| | Bureau of Land Management | |

Figure 4-1 Project Area Grazing Allotments

Eastern Kern County Acquisition Draft EIR



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

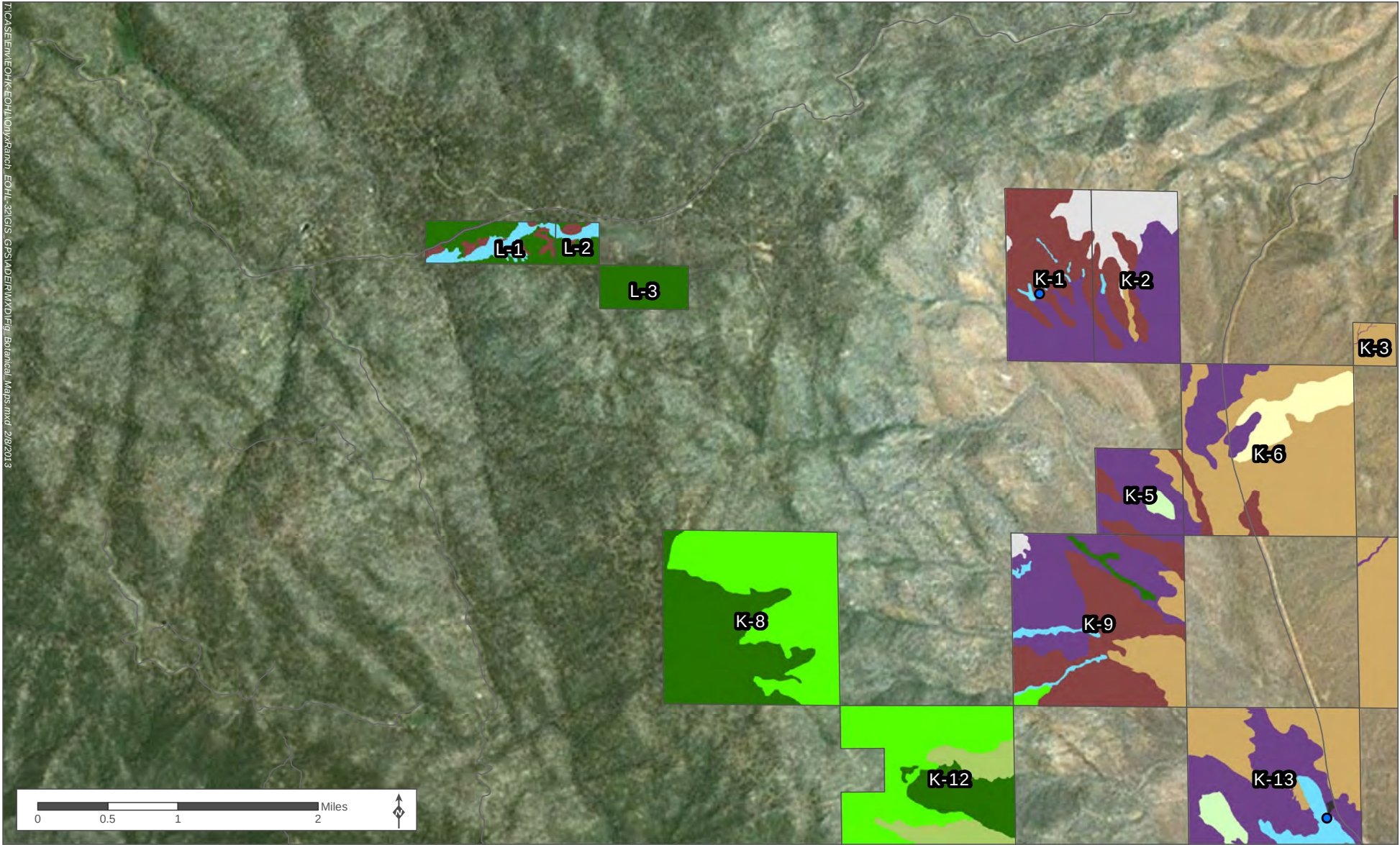


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Figure 4-2 Grazing Infrastructure

Eastern Kern County Acquisition Draft EIR

T:\CASEFILES\EOH\1014\014\Map\Re Nu Parcels_32IGIS_GPS\ADEIR\Map\Fig_Botanical_Maps.mxd 2/8/2013



Source: USDA, Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

- | | | | |
|--|---|--|--|
| <ul style="list-style-type: none"> Re Nu Parcels Seep/Spring | Vegetation Alliances and Associations <ul style="list-style-type: none"> Barren and Rock Outcrop Developed Blackbrush Scrubland Creosote and Bursage Scrub | <ul style="list-style-type: none"> Desert Wash and Terrace Lower Mojave Woody Scrub Upper Mojave Woody Scrub Joshua Tree Woodland Grassland | <ul style="list-style-type: none"> Oak Forest and Woodland Juniper Woodland Pine Forest and Woodland Wetland and Riparian |
|--|---|--|--|

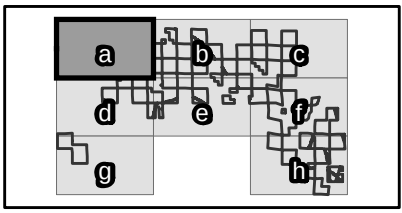
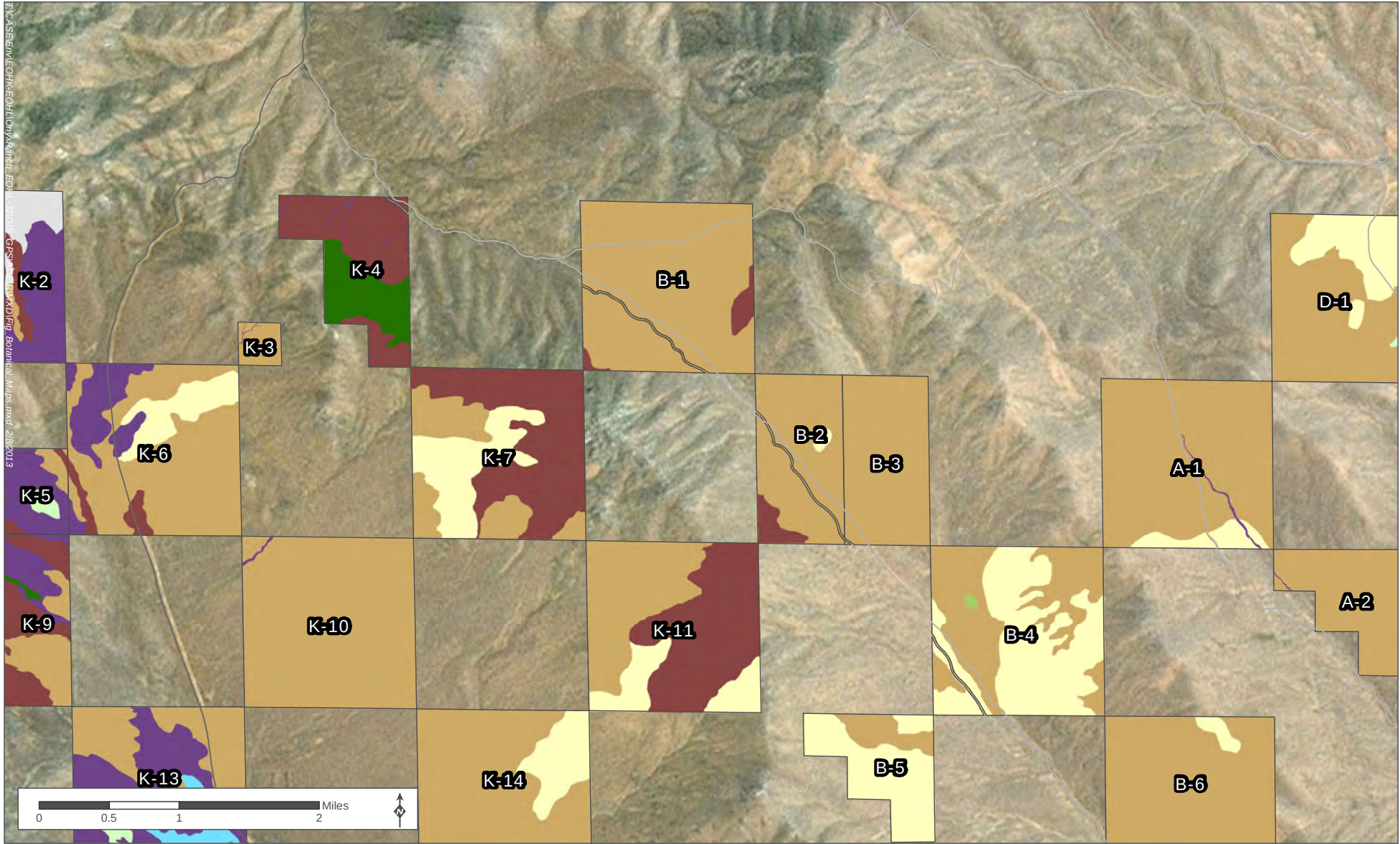


Figure 6-1a Vegetation Alliances and Associations
Eastern Kern County Acquisition Draft EIR



Source: USDA, Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

- | | | | |
|--|---|--|---|
| <ul style="list-style-type: none"> Re Nu Parcels Seep/Spring | Vegetation Alliances and Associations <ul style="list-style-type: none"> Barren and Rock Outcrop Developed Blackbrush Scrubland Creosote and Bursage Scrub | <ul style="list-style-type: none"> Desert Wash and Terrace Lower Mojave Woody Scrub Upper Mojave Woody Scrub Joshua Tree Woodland Grassland | <ul style="list-style-type: none"> Oak Forest and Woodland Juniper Woodland Pine Forest and Woodland Wetland and Riparian |
|--|---|--|---|

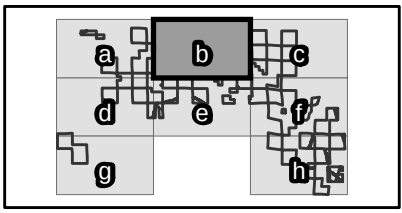
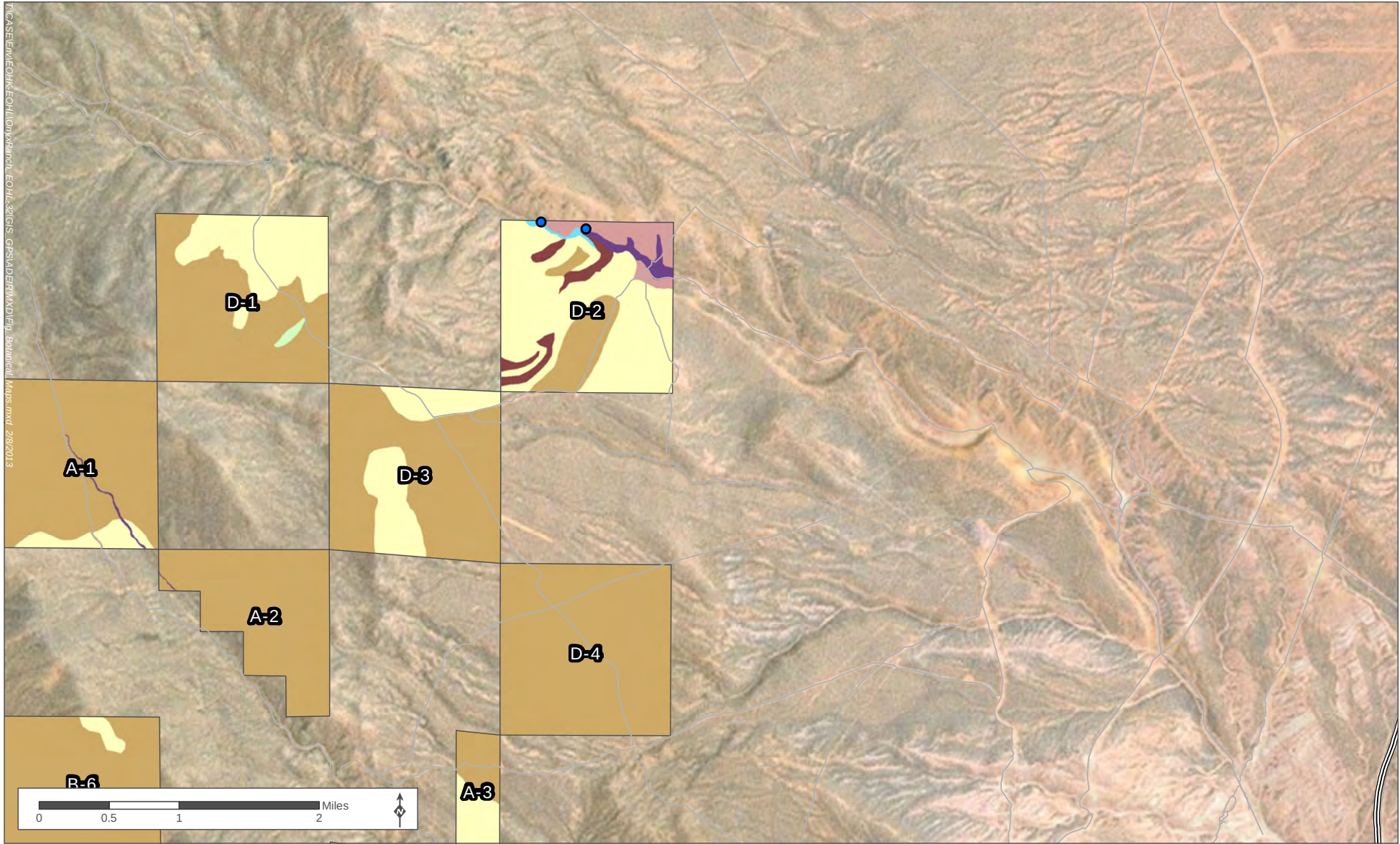


Figure 6-1b Vegetation Alliances and Associations

Eastern Kern County Acquisition Draft EIR



Source: USDA, Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

- | | | | |
|--|---|--|---|
| <ul style="list-style-type: none"> Re Nu Parcels Seep/Spring | Vegetation Alliances and Associations <ul style="list-style-type: none"> Barren and Rock Outcrop Developed Blackbrush Scrubland Creosote and Bursage Scrub | <ul style="list-style-type: none"> Desert Wash and Terrace Lower Mojave Woody Scrub Upper Mojave Woody Scrub Joshua Tree Woodland Grassland | <ul style="list-style-type: none"> Oak Forest and Woodland Juniper Woodland Pine Forest and Woodland Wetland and Riparian |
|--|---|--|---|

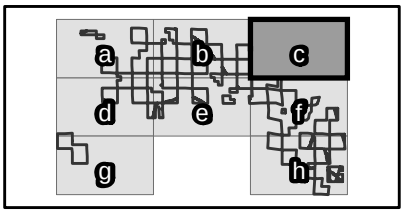
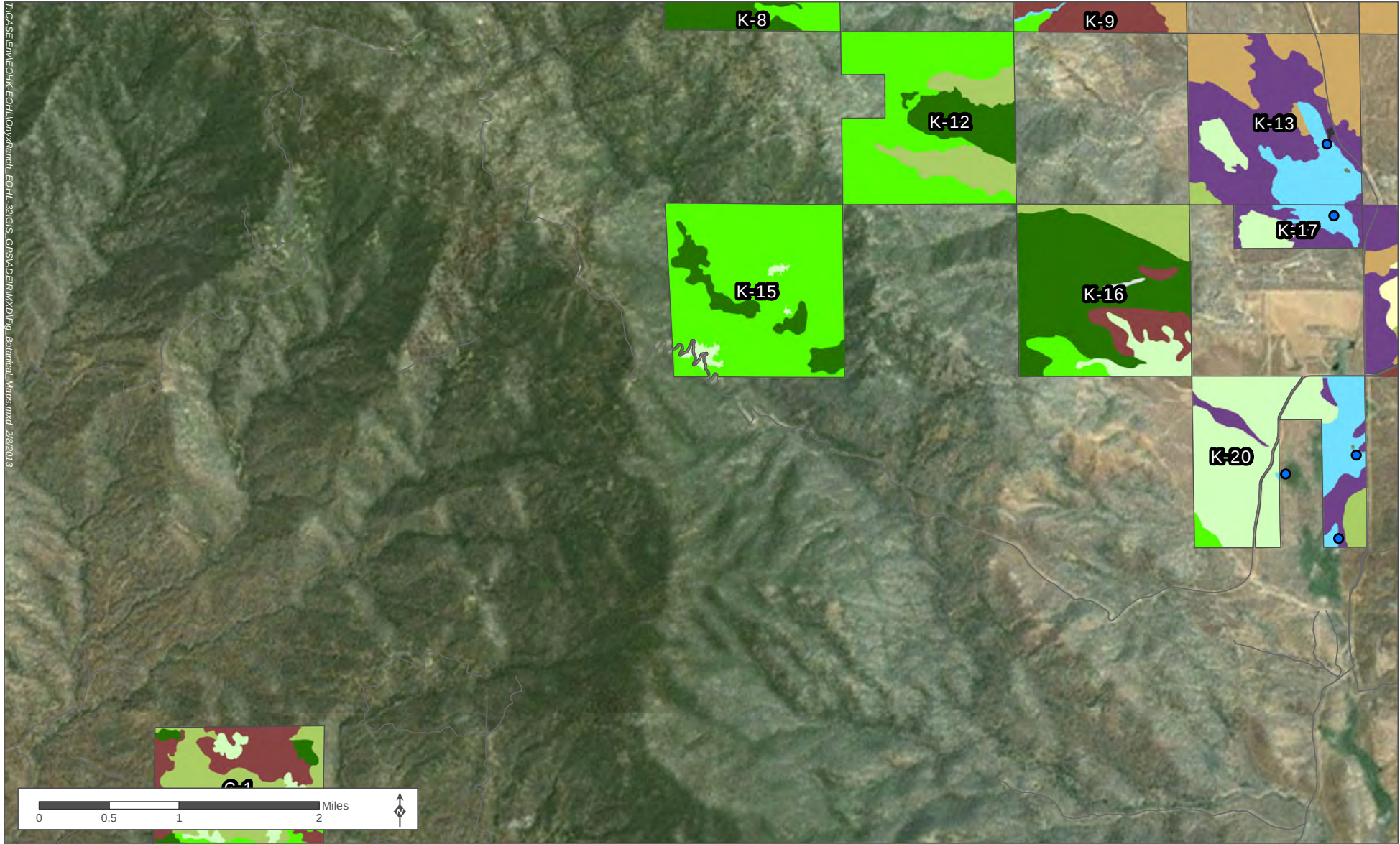


Figure 6-1c Vegetation Alliances and Associations
 Eastern Kern County Acquisition Draft EIR



Source: USDA, Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

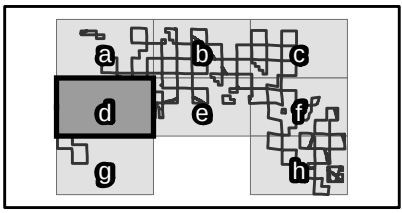
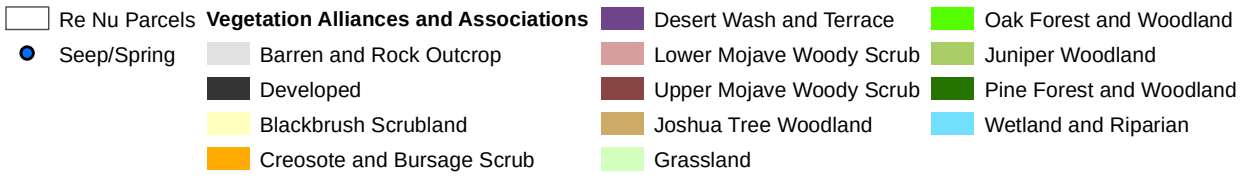
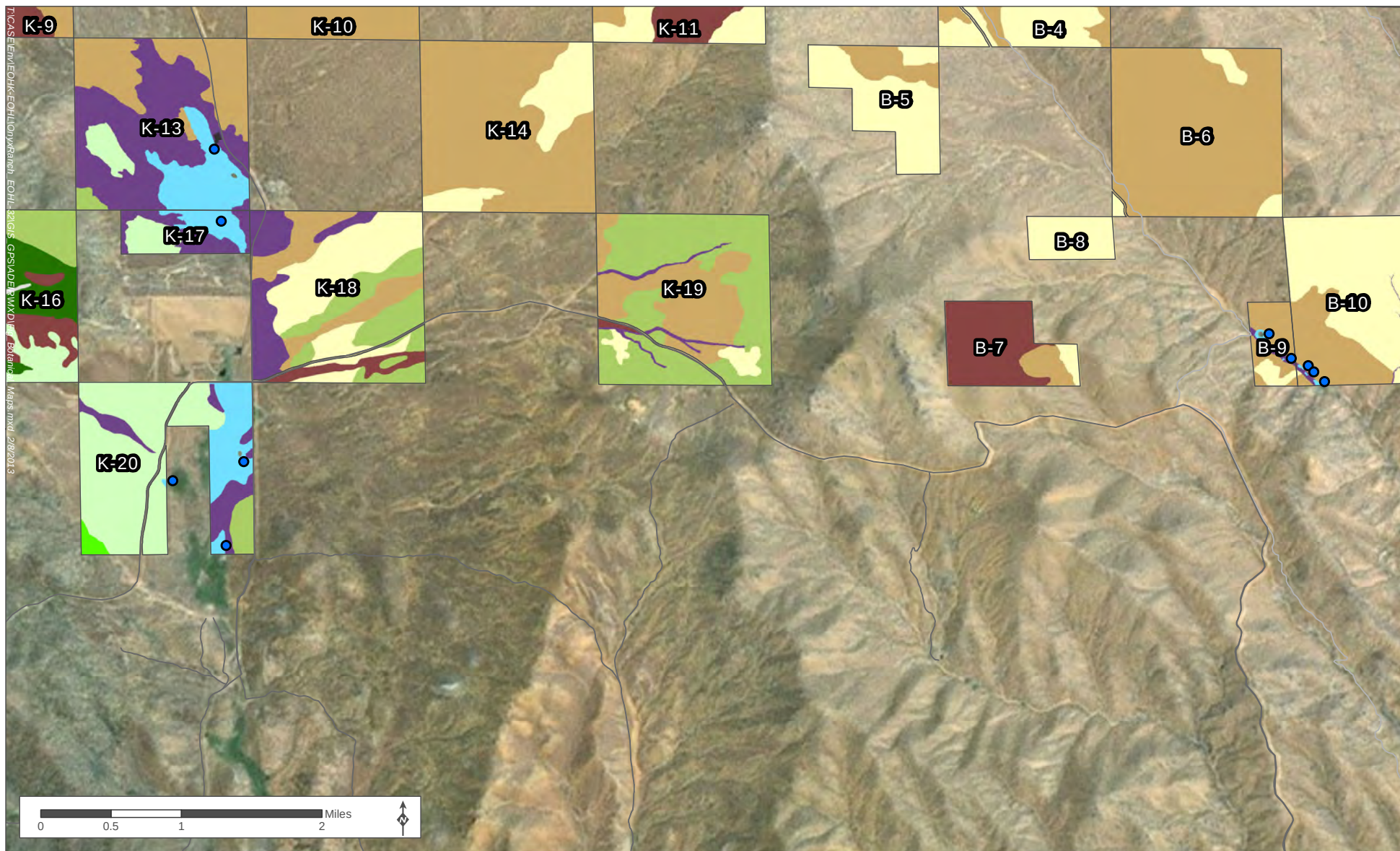


Figure 6-1d Vegetation Alliances and Associations

Eastern Kern County Acquisition Draft EIR



Source: USDA, Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

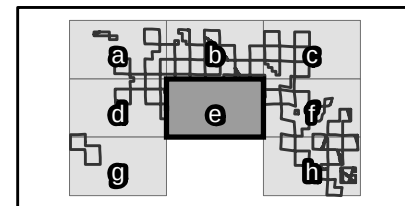
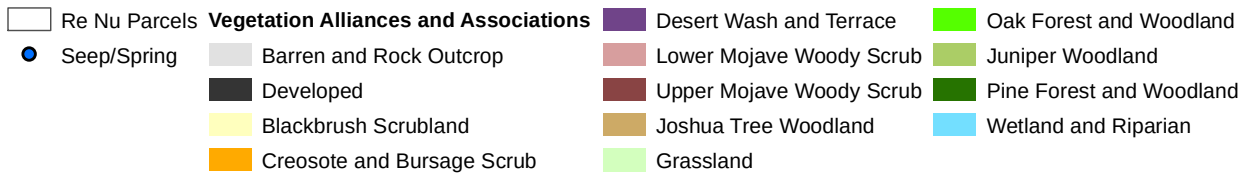
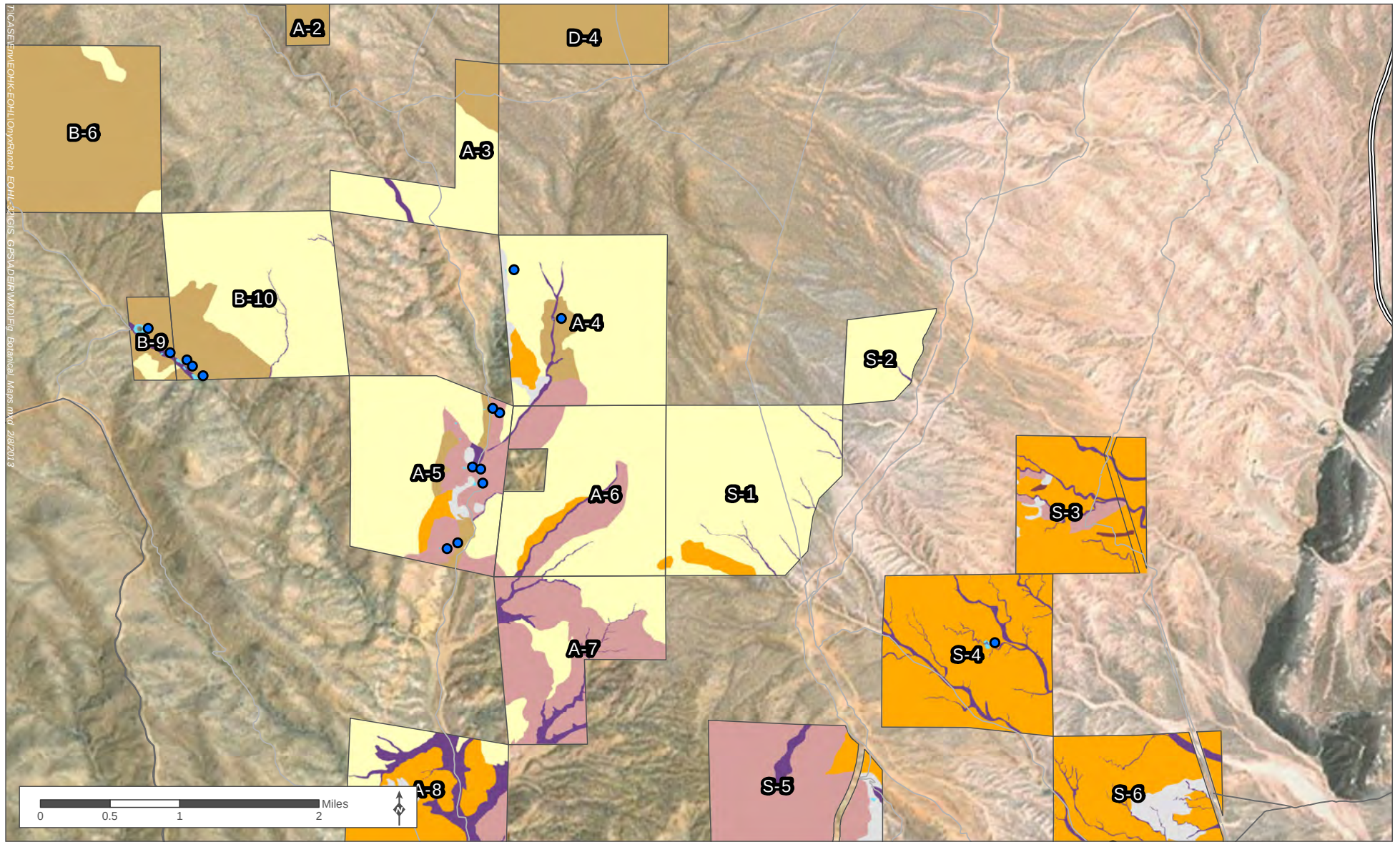


Figure 6-1e Vegetation Alliances and Associations



Source: USDA, Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

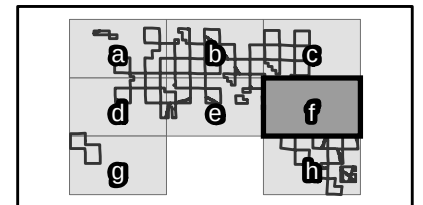
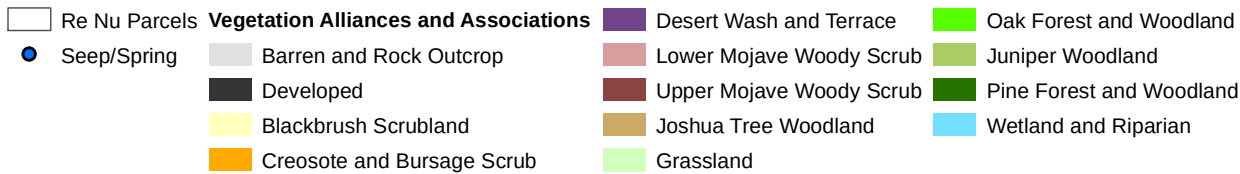
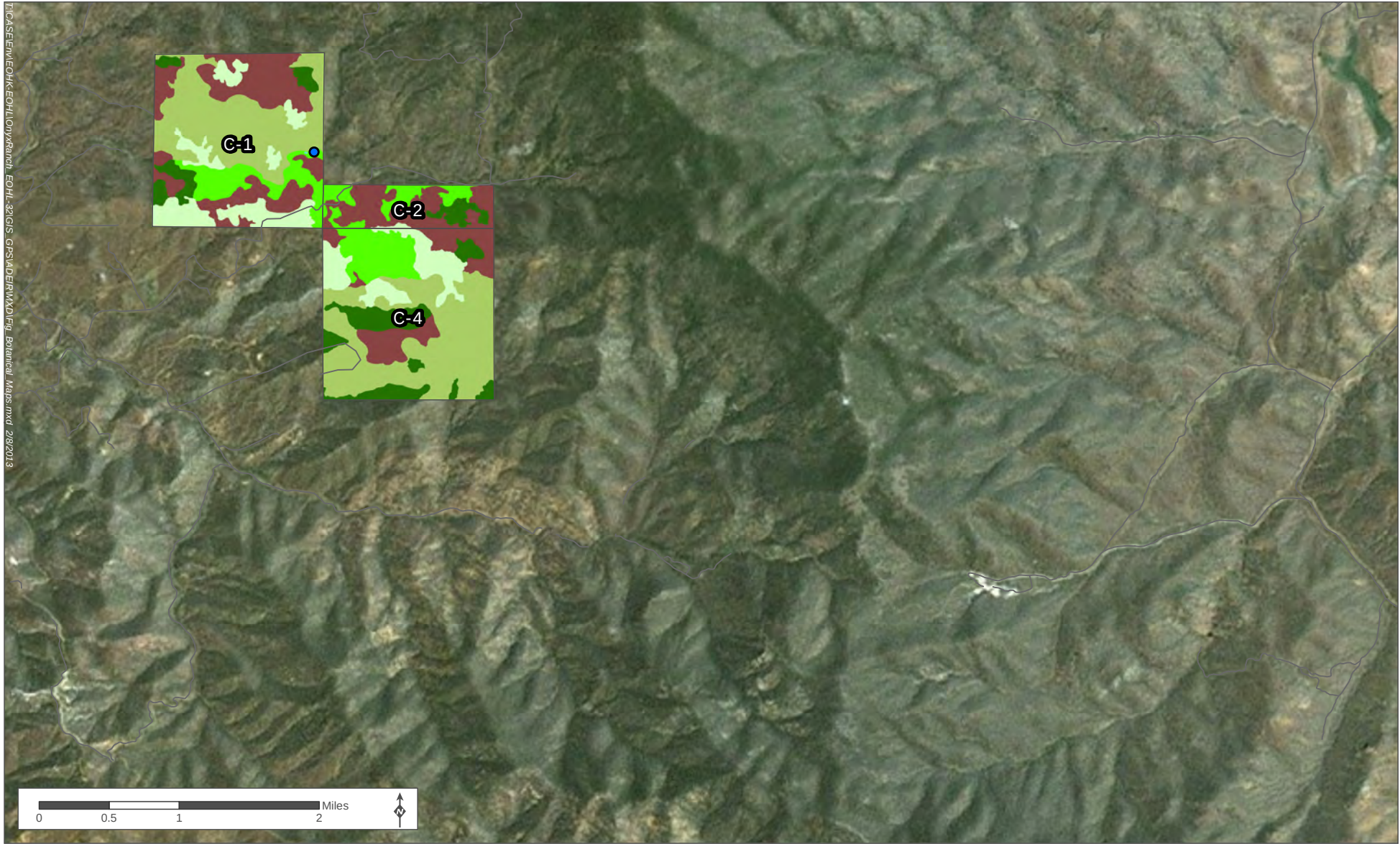


Figure 6-1f Vegetation Alliances and Associations

Eastern Kern County Acquisition Draft EIR





Source: USDA, Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

- | | | | |
|--|---|--|---|
| <ul style="list-style-type: none"> Re Nu Parcels Seep/Spring | Vegetation Alliances and Associations <ul style="list-style-type: none"> Barren and Rock Outcrop Developed Blackbrush Scrubland Creosote and Bursage Scrub | <ul style="list-style-type: none"> Desert Wash and Terrace Lower Mojave Woody Scrub Upper Mojave Woody Scrub Joshua Tree Woodland Grassland | <ul style="list-style-type: none"> Oak Forest and Woodland Juniper Woodland Pine Forest and Woodland Wetland and Riparian |
|--|---|--|---|

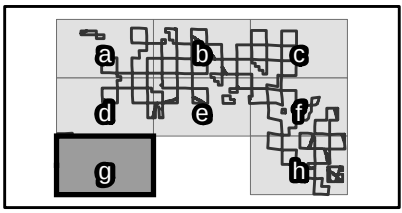
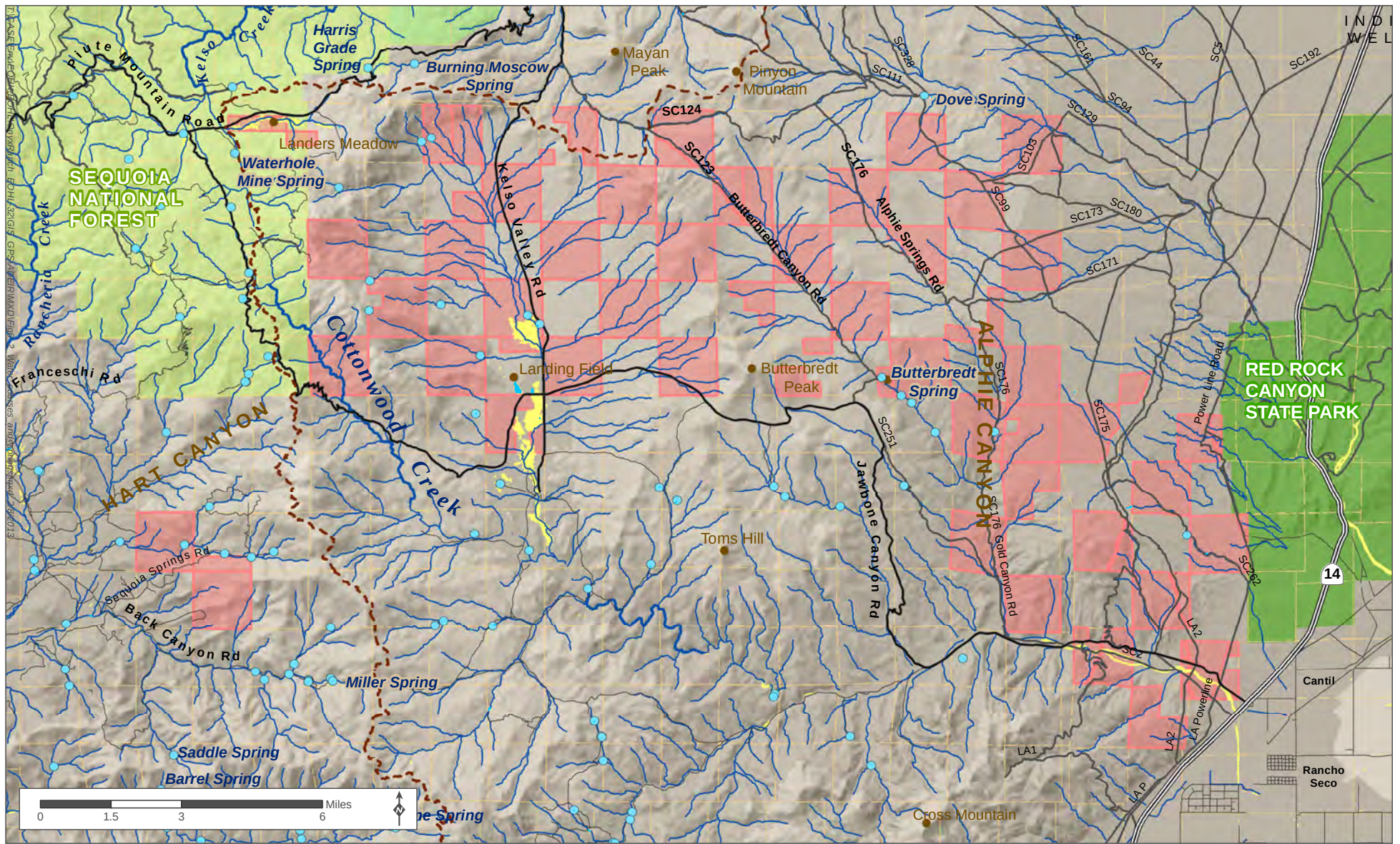


Figure 6-1g Vegetation Alliances and Associations

Eastern Kern County Acquisition Draft EIR



Source: Bureau of Land Management, USGS National Hydrologic Dataset, USFWS NWI, CalTrans, USFS, TRA, Kern County, California Department of Recreation

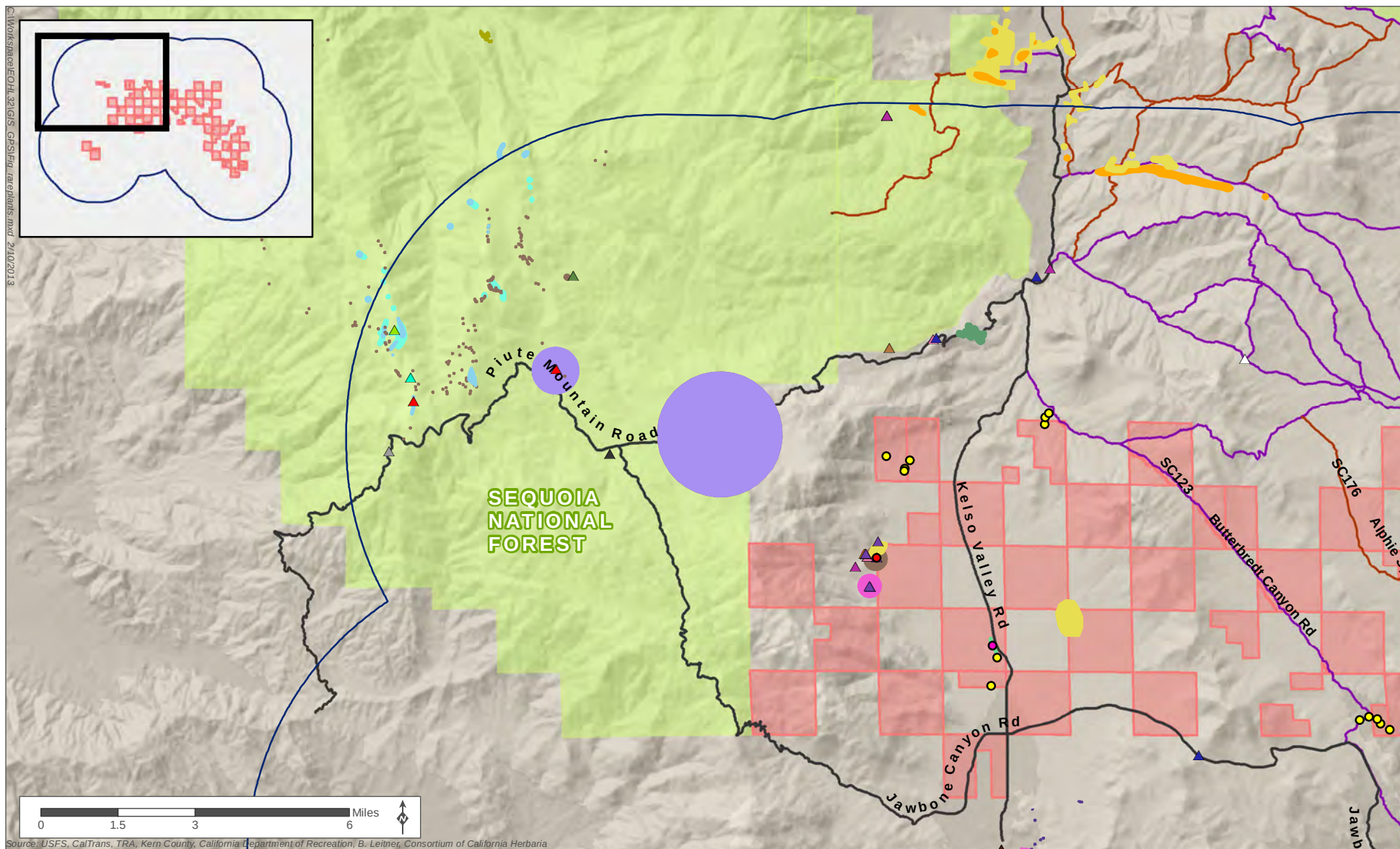
- | | | |
|---------------------------------|-----------------------------|---------------------|
| State Route | Project Parcels | Springs and Seeps |
| Local Roads | California State Parks | Wetlands (USFWS) |
| Other Local Roads | US Forest Service | Waterbodies |
| 4WD & OHV Designated Routes | Public Land Survey Sections | Perennial Stream |
| Pacific Crest Trail (USFS 2008) | | Intermittent Stream |



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Figure 6-2 Water Courses, Springs, and Wetlands

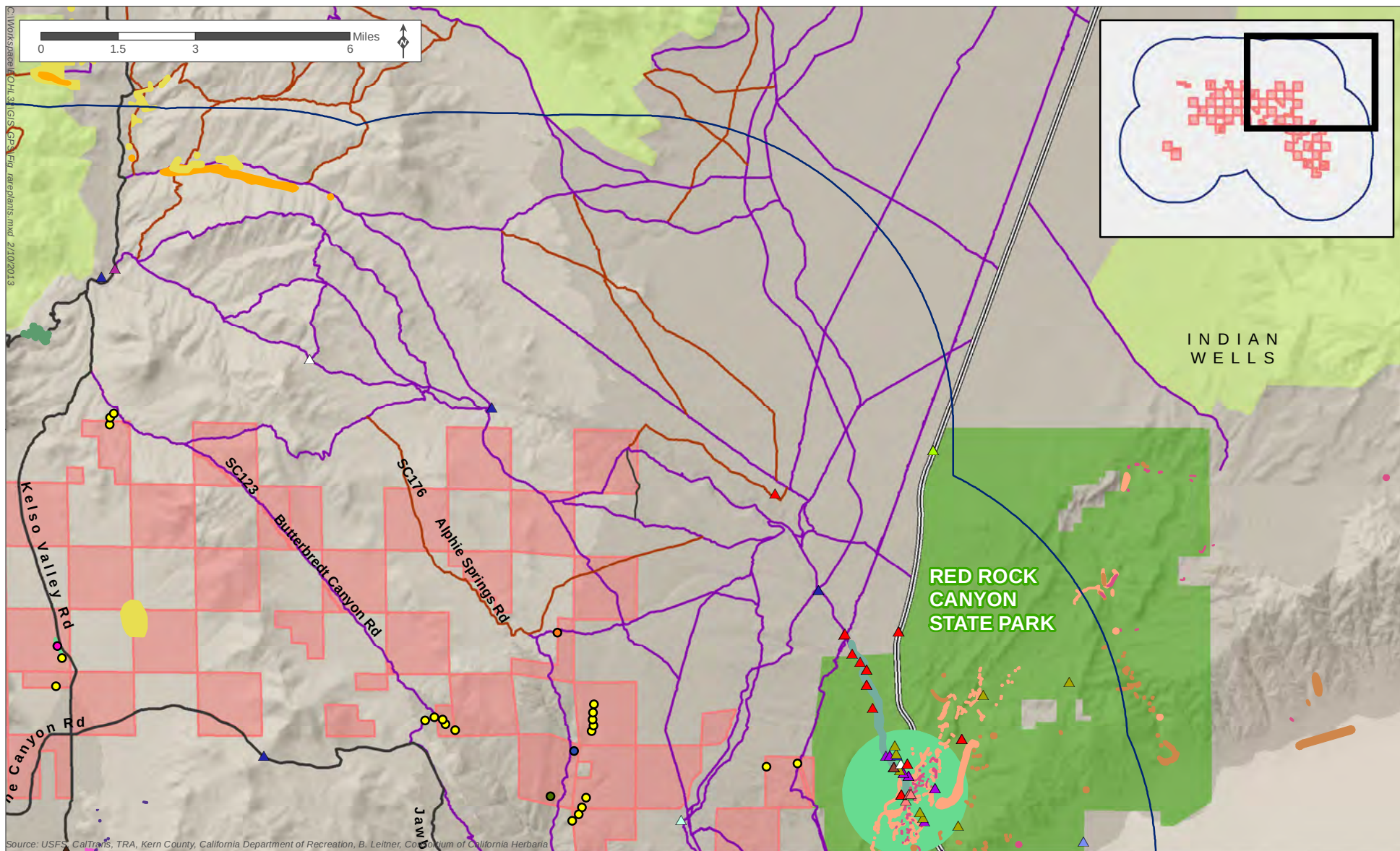
Eastern Kern County Acquisition Draft EIR



Rare Plants Recorded during Vegetation Surveys		Consortium of Herbaria Records		CNDDB Records		BLM Designated Routes	
● Palmer's mariposa lily	▲ Breedlove's buckwheat	▲ Kern County evening-primrose	▲ intermontane lupine	■ Piute cypress	— Local Roads	— 4 Wheel Drive	
● Mojave Indian paintbrush	▲ Death Valley sandmat	▲ Mojave tarplant	▲ pine fritillary	■ San Bernardino aster	— Re Nu Parcels	— ATV & MC	
● Death Valley sandmat	▲ Kelso Creek monkeyflower	▲ Palmer's mariposa-lily	▲ silky lupine	■ Tracy's eriastrium	— US Forest Service	— Other	
	▲ Kern Canyon clarkia	▲ Transverse Range phacelia	▲ unexpected larkspur	■ alkali mariposa-lily	— 5 mile buffer		
		▲ fragile pentachaeta	▲ white pygmy poppy	■ Mojave tarplant			
				■ Palmer's mariposa-lily			
				■ unexpected larkspur			
				■ white pygmy-poppy			

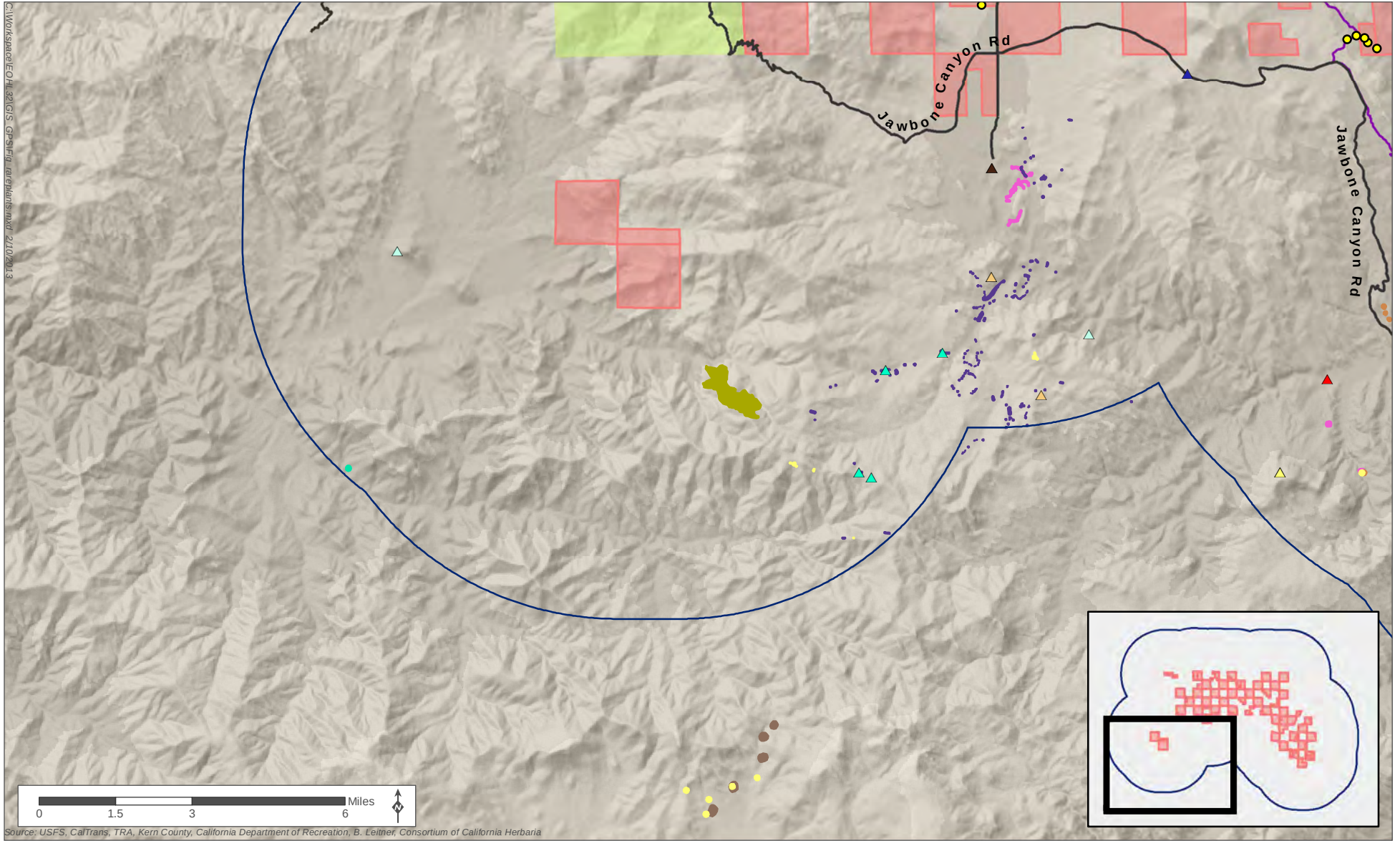


Figure 6-3a Special-status Plants In and Near the Eastern Kern County Acquisition Project



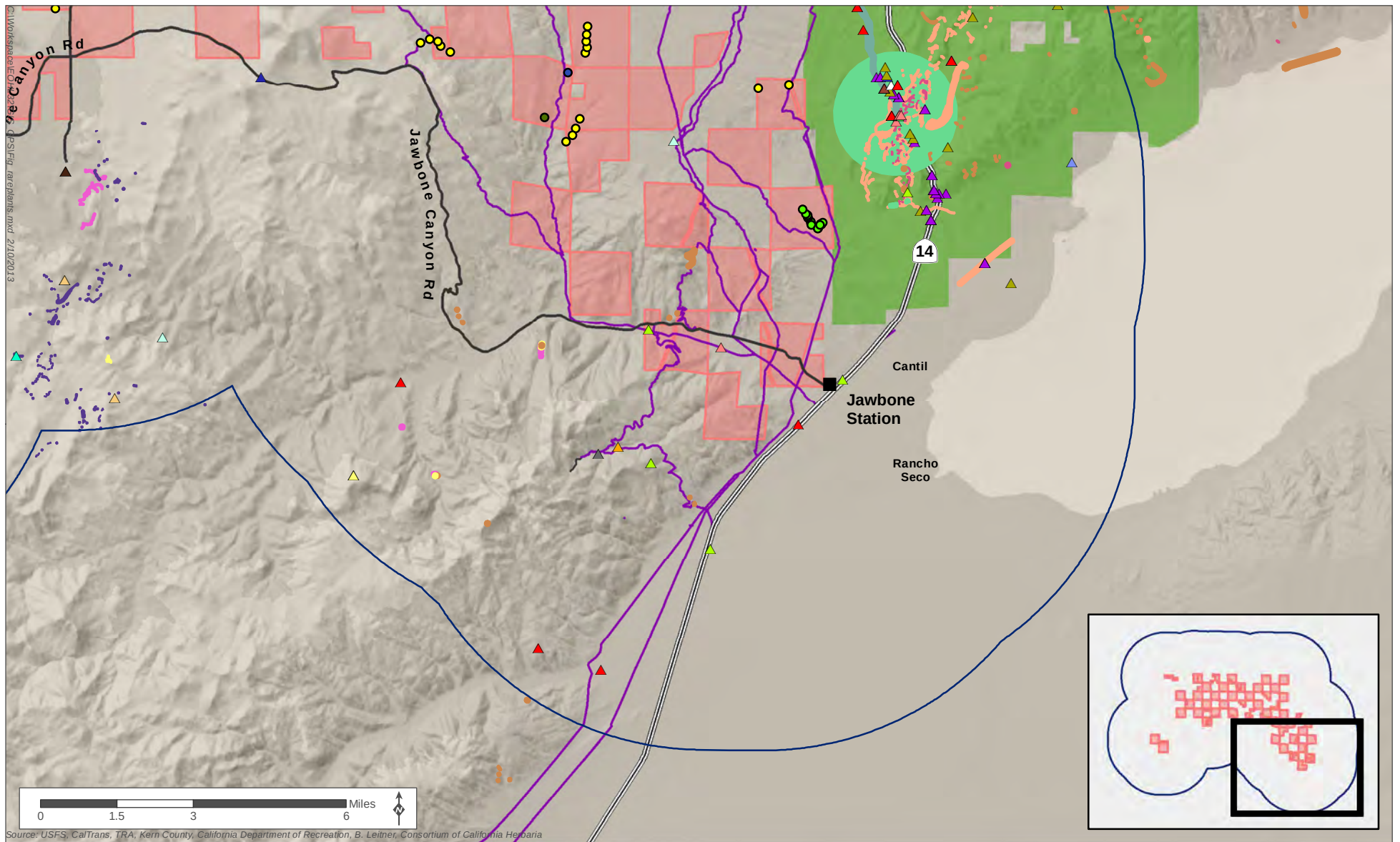
- | | | | | | | | |
|---|---|---|--|---|--|---|---|
| Rare Plants Recorded during Vegetation Surveys
<ul style="list-style-type: none"> Mojoave Indian paintbrush Death Valley sandmat Desert cymopterus Charlotte's phacelia Mojoave fish-hook cactus | Consortium of Herbaria Records
<ul style="list-style-type: none"> Charlotte's phacelia Death Valley sandmat Kelso Creek monkeyflower Mojoave fishhook cactus Mojoave indigo-bush | <ul style="list-style-type: none"> Mojoave spineflower Red Rock poppy Red Rock tarplant alkali mariposa-lily crowned muilla fragile pentachaeta | <ul style="list-style-type: none"> intermontane lupine limestone dudleya solitary blazing star white pygmy poppy | CNDDB Records
<ul style="list-style-type: none"> Charlotte's phacelia Kelso Creek monkeyflower Kern Canyon clarkia Mojoave tarplant Red Rock poppy | <ul style="list-style-type: none"> Red Rock tarplant Tracy's eriastrum alkali mariposa-lily creamy blazing star white pygmy-poppy | <ul style="list-style-type: none"> State Route Local Roads Re Nu Parcels California State Parks US Forest Service 5 mile buffer | BLM Designated Routes
Route Type
<ul style="list-style-type: none"> 4 Wheel Drive ATV & MC Other |
|---|---|---|--|---|--|---|---|

Figure 6-3b Special-status Plants In and Near the Eastern Kern County Acquisition Project



Source: USFS, CalTrans, TRA, Kern County, California Department of Recreation, B. Leitner, Consortium of California Herbaria

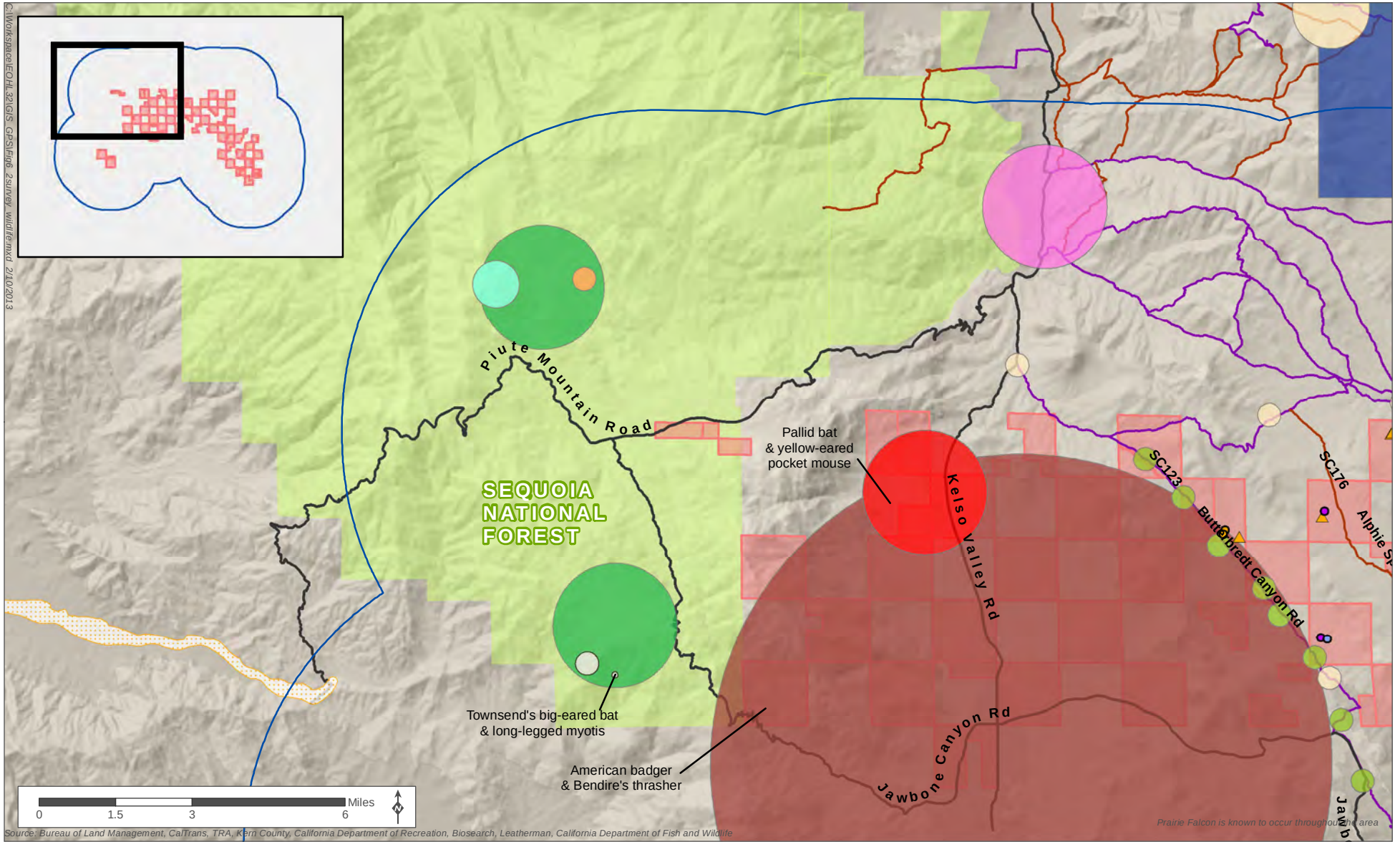
- | | | | | | | |
|---|---|--|--|---|---|---|
| <p>Rare Plants Recorded during Vegetation Surveys</p> <ul style="list-style-type: none"> ● Death Valley sandmat | <p>Consortium of Herbaria Records</p> <ul style="list-style-type: none"> ▲ Brandegee's eriastrum ▲ Death Valley sandmat ▲ Peirson's spring beauty | <ul style="list-style-type: none"> ▲ Tracy's eriastrum ▲ fragile pentachaeta ▲ intermontane lupine ▲ limestone dudleya | <ul style="list-style-type: none"> ▲ solitary blazing star ▲ white pygmy poppy | <p>CNDDB Records</p> <ul style="list-style-type: none"> ■ Charlotte's phacelia ■ Mojave tarplant ■ Palmer's mariposa-lily | <ul style="list-style-type: none"> ■ Piute cypress ■ Spanish Needle onion ■ Tracy's eriastrum ■ calico monkeyflower | <p>BLM Designated Routes</p> <p>Route Type</p> <ul style="list-style-type: none"> — Local Roads ■ Re Nu Parcels — 4 Wheel Drive — 5 mile buffer |
|---|---|--|--|---|---|---|



Rare Plants Recorded during Vegetation Surveys		Consortium of Herbaria Records		CNDDDB Records		BLM Designated Routes	
● Death Valley sandmat	▲ Brandegee's eriastrum	▲ Mojave spineflower	▲ fragile pentachaeta	■ Charlotte's phacelia	■ Spanish Needle onion	■ Jawbone Station	■ State Route
● Mojave spineflower	▲ Charlotte's phacelia	▲ Peirson's spring beauty	▲ intermontane lupine	■ Mojave tarplant	■ Tracy's eriastrum	■ Local Roads	■ Re Nu Parcels
● Charlotte's phacelia	▲ Death Valley sandmat	▲ Red Rock poppy	▲ limestone dudleya	■ Red Rock poppy	■ alkali mariposa-lily	■ California State Parks	■ 5 mile buffer
● Mojave fish-hook cactus	▲ Hubby's phacelia	▲ Red Rock tarplant	▲ solitary blazing star	■ Red Rock tarplant	■ creamy blazing star		
	▲ Mojave fishhook cactus	▲ Tracy's eriastrum	▲ streambank spring beauty				
	▲ Mojave indigo-bush	▲ alkali mariposa-lily	▲ white pygmy poppy				
		▲ crowned muilla					



Figure 6-3d Special-status Plants In and Near the Eastern Kern County Acquisition Project



Biosearch 2012

- ▲ Mohave ground squirrel initial capture

Incidental Observations & Sign Biosearch 2012

- Golden Eagle
- Loggerhead Shrike
- Mohave Ground Squirrel

CNDRB records

- American badger
- Comstock's blue butterfly
- Kern Plateau salamander
- Le Conte's thrasher
- Mohave ground squirrel
- Pacific fisher
- Piute Mountains cuckoo wasp
- Townsend's big-eared bat
- Tulare grasshopper mouse
- lodgepole chipmunk
- pallid bat
- yellow-blotched salamander

BLM Designated Routes

Route Type

- 4 Wheel Drive
- ATV & MC
- Other

Local Roads

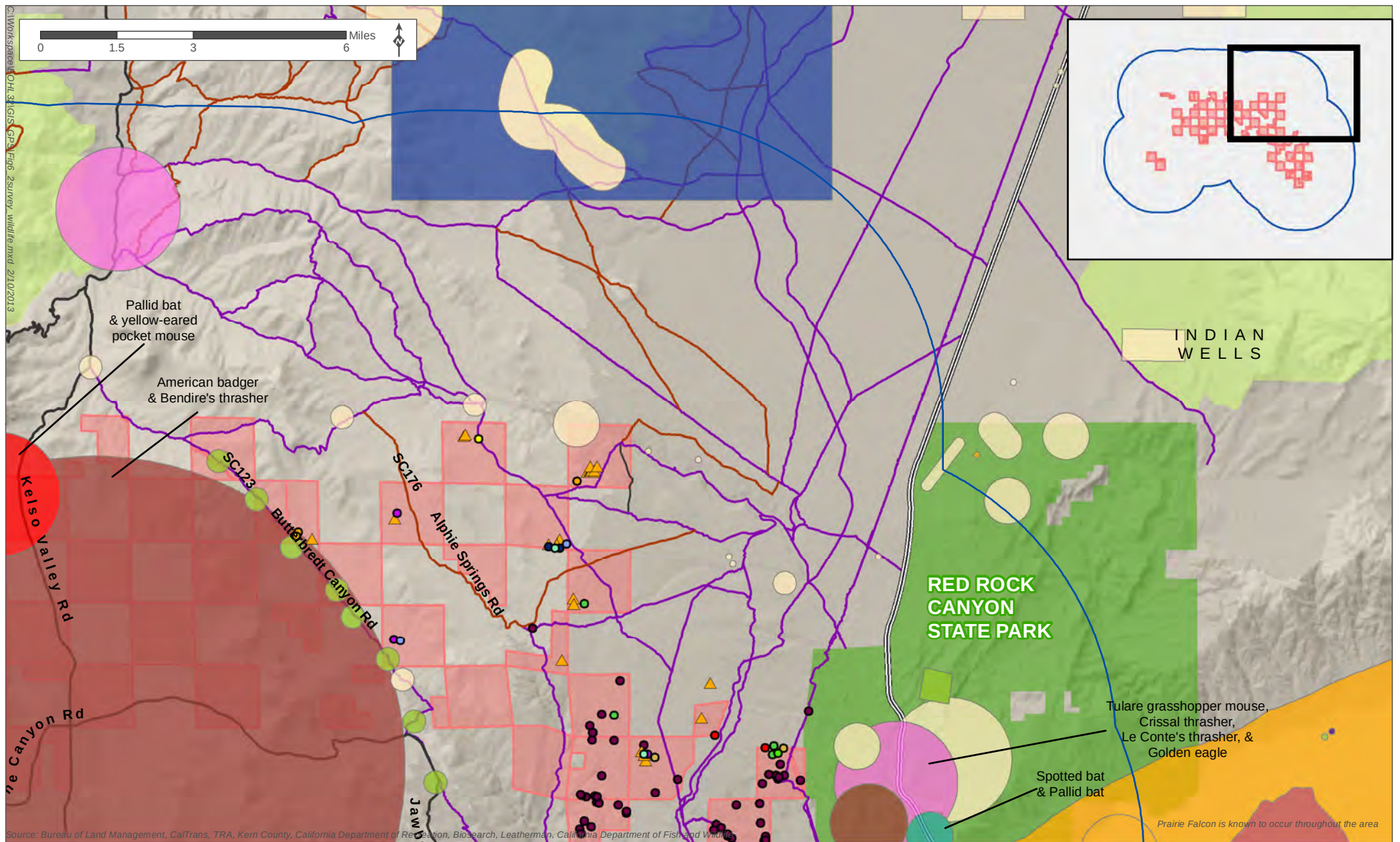
- 5 mile buffer

- US Forest Service



Figure 6-4a Special-status Wildlife In and Near the Eastern Kern County Acquisition Project

Eastern Kern County Acquisition Draft EIR



Leatherman 2012

- Tortoise sign, burrow, or individual

Incidental Observations & Sign Biosearch 2012

- American Badger
- Desert Tortoise
- Golden Eagle
- Kit Fox

Biosearch 2012

- LeConte's Thrasher
- Loggerhead Shrike
- Mohave Ground Squirrel
- Northern Harrier
- Prairie Falcon
- Swainson's Hawk

Biosearch 2012

- ▲ Mohave ground squirrel initial capture

CNDDB records

- American badger
- Kern Plateau salamander
- Le Conte's thrasher
- Mohave ground squirrel
- Tulare grasshopper mouse

BLM Designated Routes

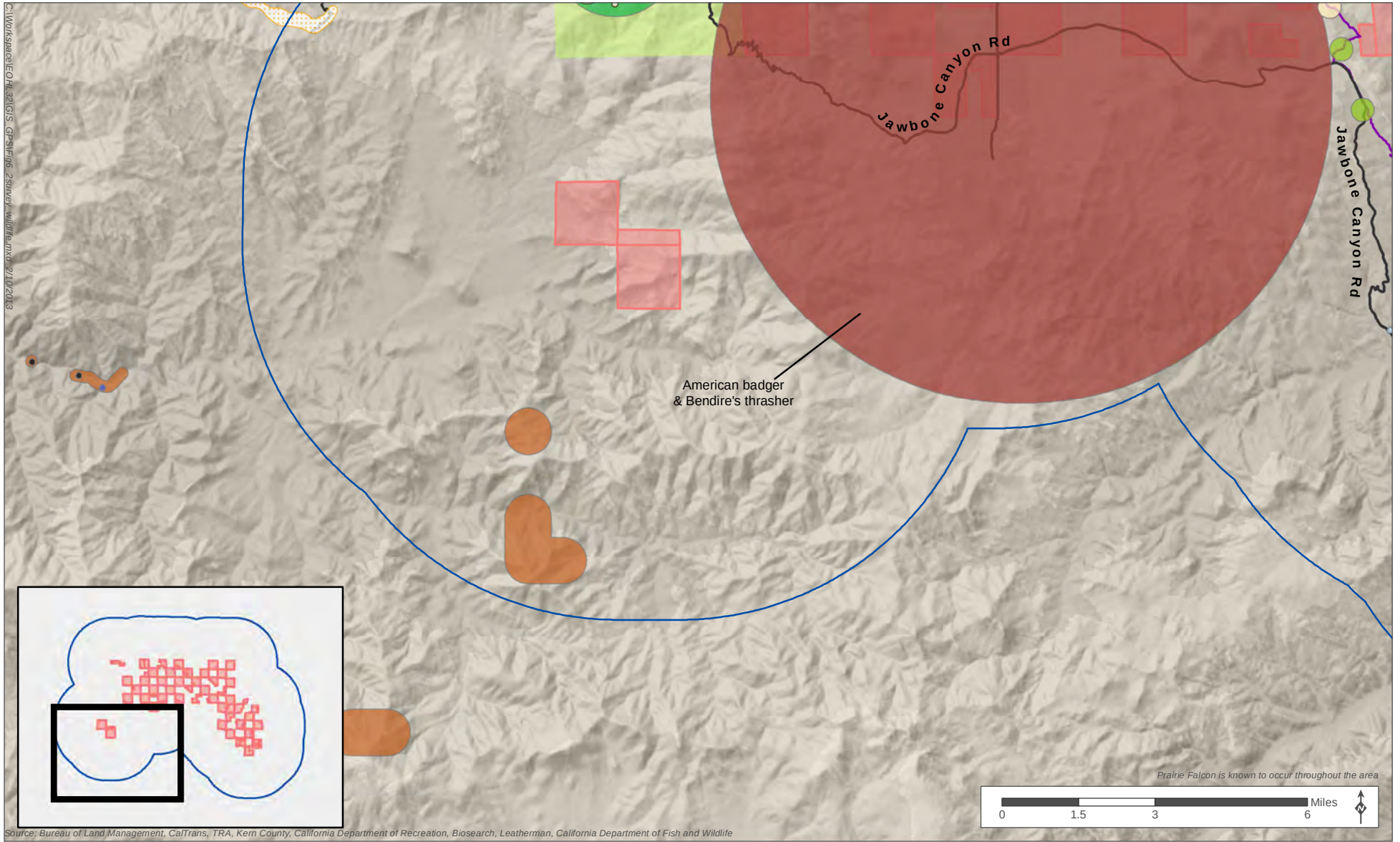
- desert tortoise
- loggerhead shrike
- pallid bat
- spotted bat
- western snowy plover

BLM Designated Routes

- Route Type
- 4 Wheel Drive
- ATV & MC
- Other

State Route

- Local Roads
- 5 mile buffer
- California State Parks
- US Forest Service



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation, Biosearch, Leatherman, California Department of Fish and Wildlife

CNDDB records

- American badger
- Le Conte's thrasher
- Mohave ground squirrel
- Piute Mountains cuckoo wasp
- Tehachapi slender salamander

Townsend's big-eared bat

lodgepole chipmunk

rosy boa

valley elderberry longhorn beetle

yellow-blotched salamander

BLM Designated Routes

Route Type

4 Wheel Drive

Local Roads

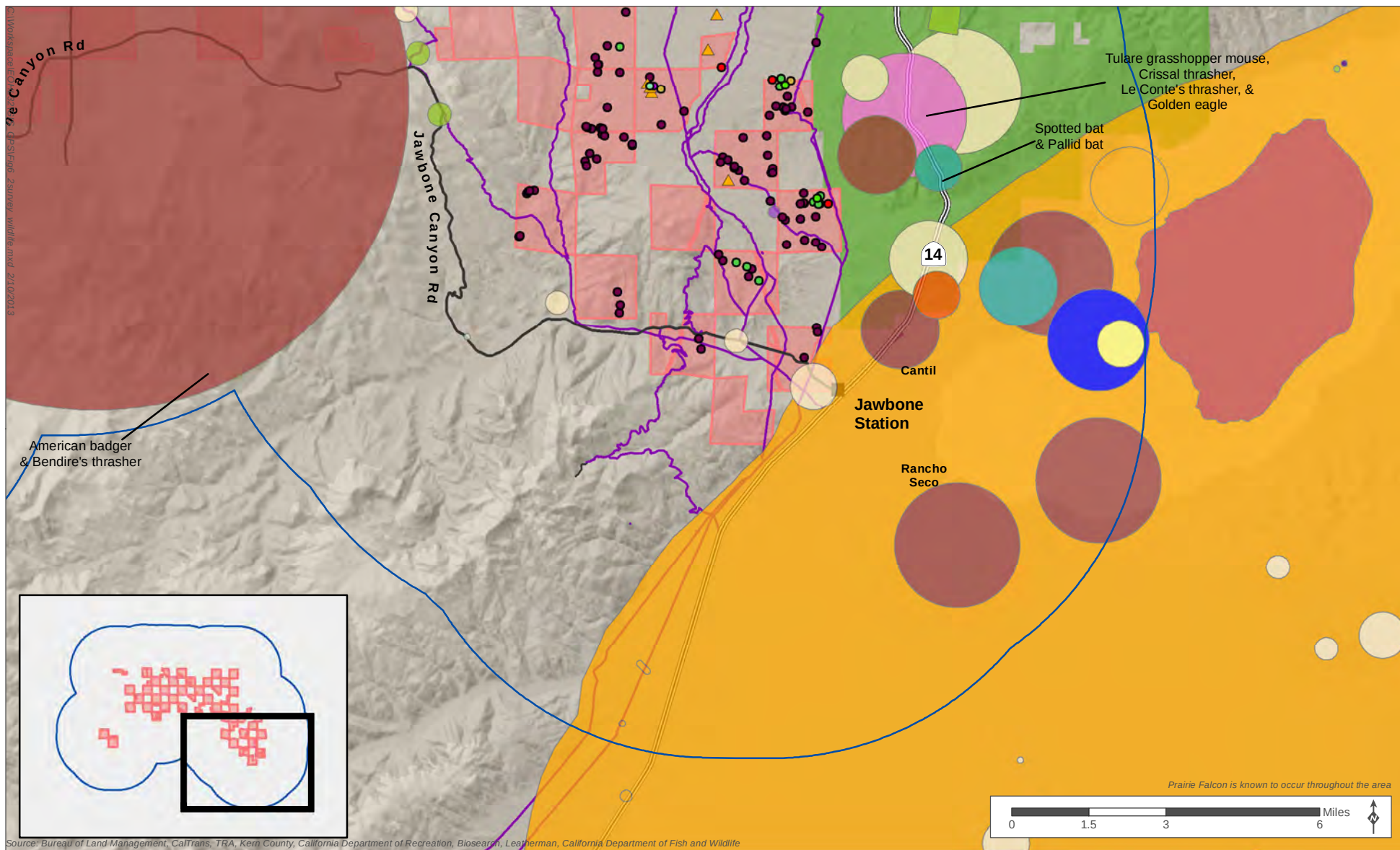
5 mile buffer



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Figure 6-4c Special-status Wildlife In and Near the Eastern Kern County Acquisition Project

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Leatherman 2012

- Tortoise sign, burrow, or individual

Biosearch 2012

- ▲ Mohave ground squirrel initial capture

Incidental Observations & Sign Biosearch 2012

- American Badger
- Desert Tortoise

Golden Eagle

- Kit Fox
- LeConte's Thrasher
- Northern Harrier
- Osprey
- Prairie Falcon

CNDDB records

- American badger
- Le Conte's thrasher
- Mohave ground squirrel
- Tulare grasshopper mouse
- burrowing owl
- desert tortoise
- gray vireo

loggerhead shrike

- long-eared owl
- mountain plover
- pallid bat
- rosy boa
- spotted bat
- tricolored blackbird
- western snowy plover

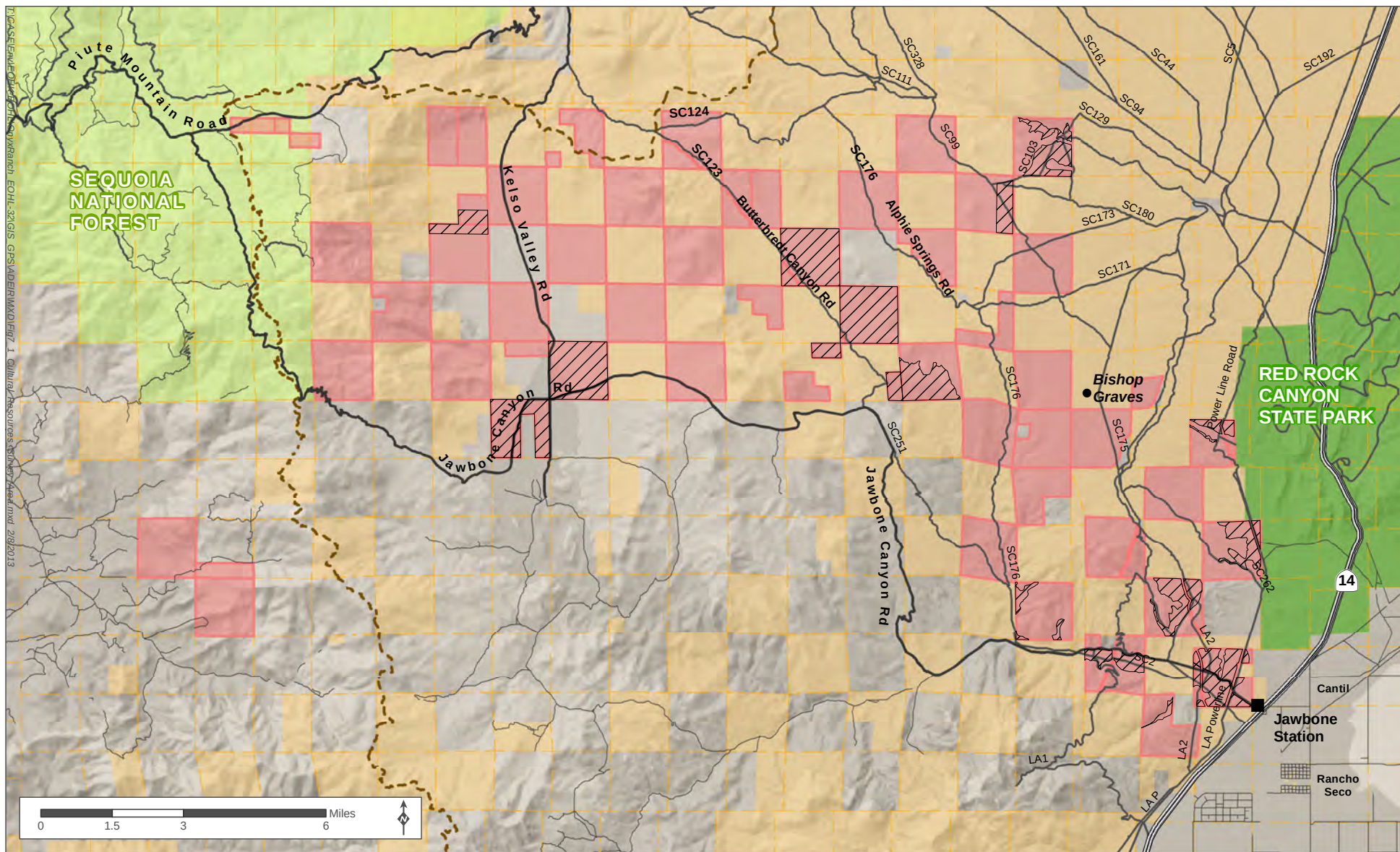
BLM Designated Routes

- Route Type
- 4 Wheel Drive
- Other

Jawbone Station

- State Route
- Local Roads
- 5 mile buffer
- California State Parks

Figure 6-4d Special-status Wildlife In and Near the Eastern Kern County Acquisition Project



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

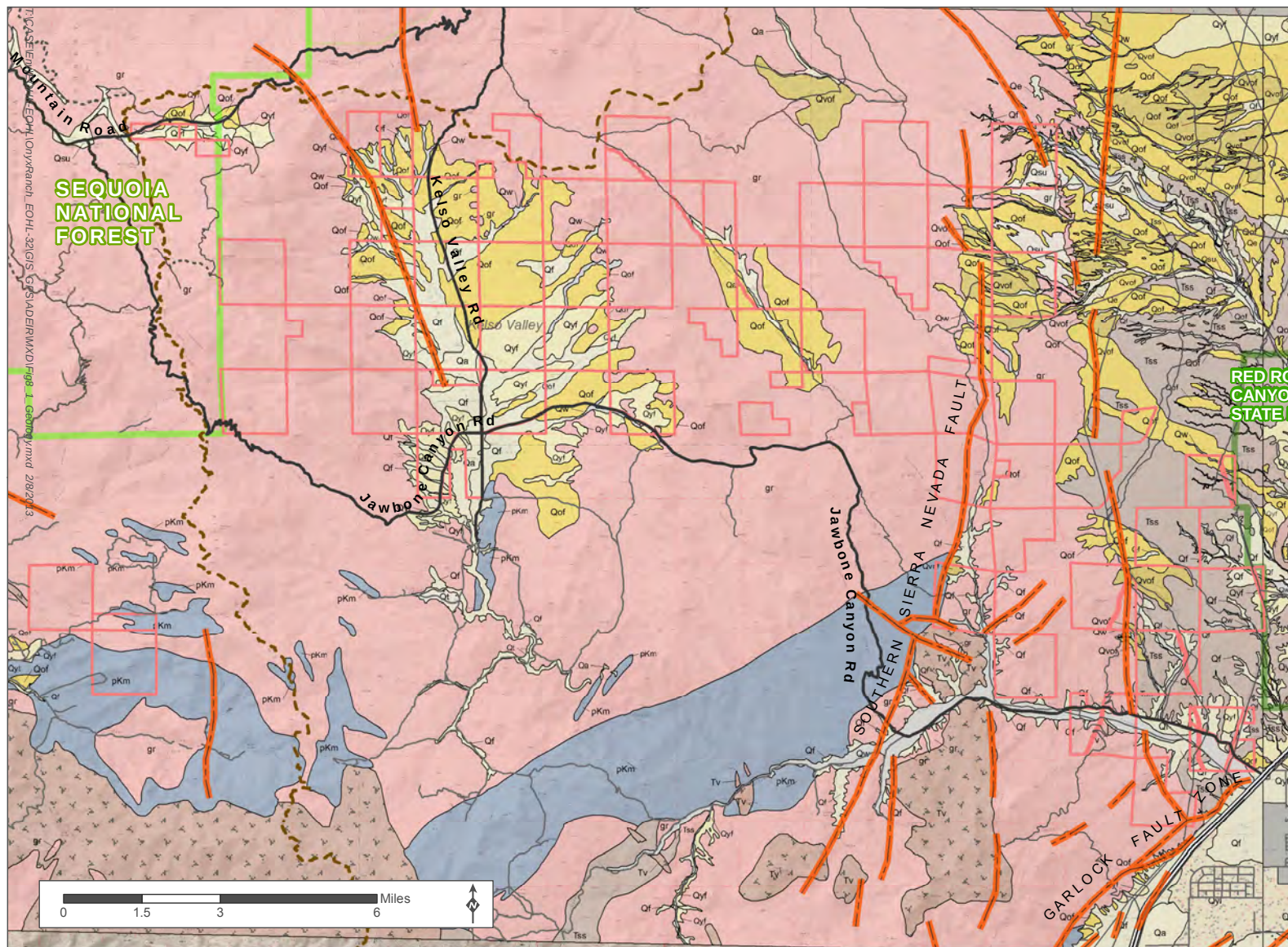
- | | | |
|---------------------------------|-----------------------------|--------------------------------|
| State Route | Project Parcels | Cultural Resources Survey Area |
| Local Roads | California State Parks | |
| Other Local Roads | Bureau of Land Management | |
| 4WD & OHV Designated Routes | US Forest Service | |
| Pacific Crest Trail (USFS 2008) | Public Land Survey Sections | |



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Figure 7-1 Cultural Resources Survey Area

Eastern Kern County Acquisition Draft EIR



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation, USGS, 1996 Probabilistic Seismic Hazard Assessment for the State of California.

- == State Route
- Other Local Roads
- Local Roads
- 4WD & OHV Routes
- - - Pacific Crest Trail (USFS 2008)
- Project Parcels
- US Forest Service
- California State Parks

Fault

References

Geologic Compilation of Quaternary Surficial Deposits in Southern California, Cuddeback Lake 30' x 60' Quadrangle, 2010, A Project for the Department of Water Resources by the California Geological Survey, scale 1:100,000

Geologic Map of Quaternary Surficial Deposits in Southern California, Tehachapi 30' x 60' Quadrangle, 2011, A Project for the Department of Water Resources by the California Geological Survey, scale 1:100,000

Map Units

Late Holocene (Surficial Deposits)

- af Artificial Fill
- Qsu Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits
- Qls Landslide Deposits; may include debris flows and older landslides
- Qw Alluvial Wash Deposits
- Qf Alluvial Fan Deposits
- Qa Alluvial Valley Deposits
- Qt Terrace Deposits; includes marine and stream terrace
- Qe Eolian and Dune Deposits

Holocene to Late Pleistocene (Surficial Deposits)

- Qyw Young Alluvial Wash Deposits
- Qyf Young Alluvial Fan Deposits
- Qye Young Eolian and Dune Deposits
- Qyt Young Terrace Deposits
- Qya Young Alluvial Valley Deposits
- Qyl Young Lacustrine, Playa and Estuarine (Paralic)

Late to Middle Pleistocene (Surficial Deposits)

- Qol Old Lacustrine, Playa and Estuarine (Paralic) Deposits
- Qow Old Alluvial Wash Deposits
- Qof Old Alluvial Fan Deposits

Middle to Early Pleistocene (Surficial Deposits)

- Qvof Very Old Alluvial Fan Deposits

Tertiary (Bedrock)

- Tss Coarse-grained Tertiary age formations of sedimentary origin
- Tv Tertiary age formations of volcanic origin

Mesozoic and Older (Bedrock)

- gr Granitic and other intrusive crystalline rocks of all ages
- pKm Cretaceous and Pre-Cretaceous metamorphic formations of sedimentary and volcanic origin



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Figure 8-1 Geologic Features

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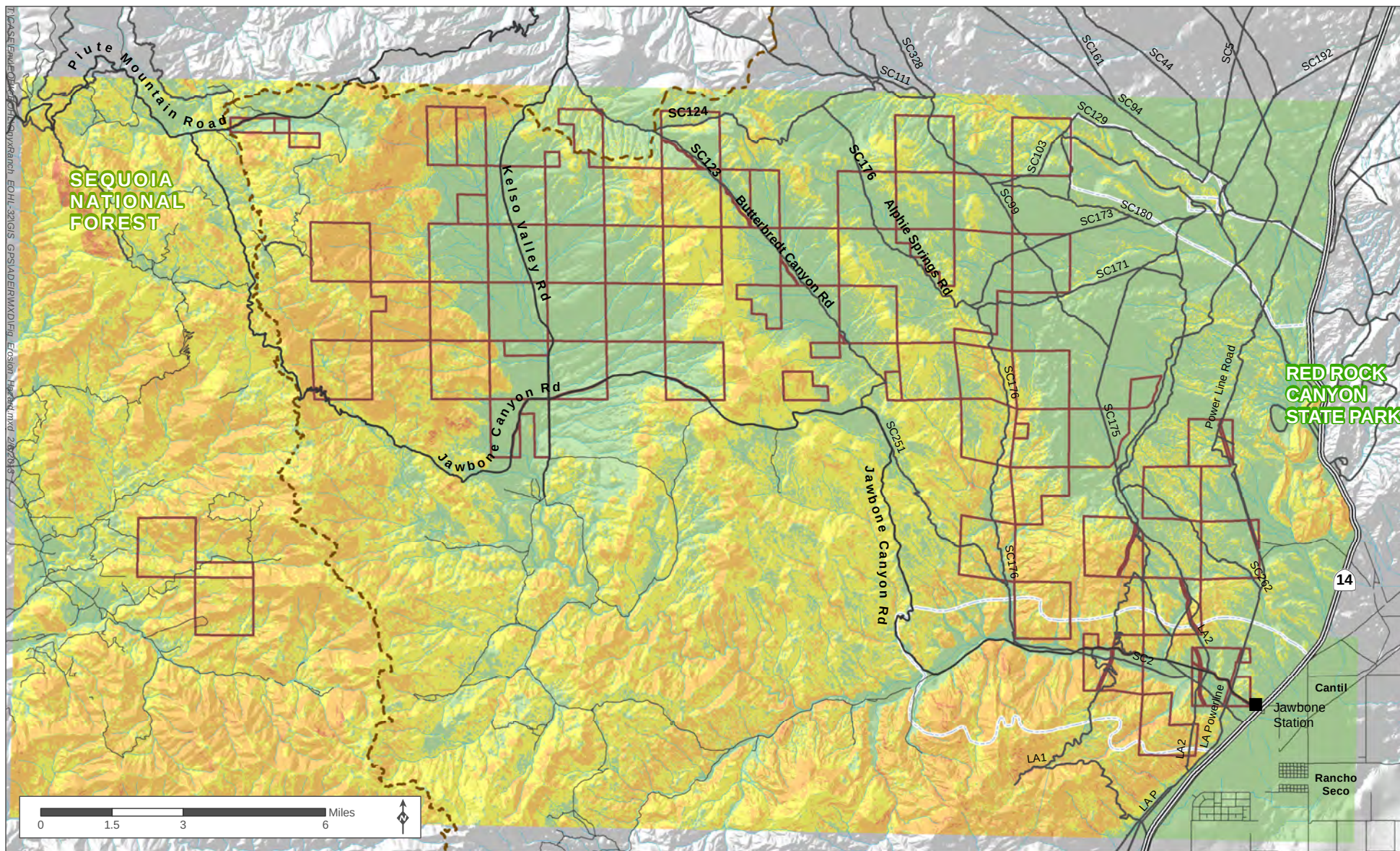
Figure 8-2 Soil Survey
Eastern Kern County Acquisition Draft EIR

Figure 8-2 Soil Survey Legend

Project Area Soils

Map Unit Symbol, Map Unit Name

104:Arizo gravelly loamy sand, 2 to 9 percent slopes	284:Tollhouse-Rock outcrop complex, 30 to 60 percent slopes
105:Arujo sandy loam, 9 to 15 percent slopes	287:Tweedy-Strahle association, 40 to 75 percent slopes
114:Cajon loamy sand, 0 to 5 percent slopes	288:Sorrell-Arujo-Rock outcrop association, 9 to 50 percent slopes
116:Cajon gravelly loamy sand, 0 to 9 percent slopes	289:Erskine-Hyte-Rock outcrop association, 30 to 60 percent slopes
138:Godde-Tollhouse gravelly sandy loams, 30 to 75 percent slopes	3010:Jawbone-Typic Haplargids-Rock outcrop association, 30 to 60 percent slopes
147:Hi Vista sandy loam, 2 to 9 percent slopes	306:Monache variant, drained, warm-Junipero family association, gently sloping
148:Jawbone gravelly loamy sand, 15 to 75 percent slopes	311:Xerorthents-Rock outcrop complex, 30 to 75 percent slopes
152:Nacimiento loam, 30 to 50 percent slopes, eroded	312:Havala sandy loam, 2 to 5 percent slopes
153:Nacimiento loam, 50 to 75 percent slopes, eroded	3250:Jawbone association, 30 to 60 percent slopes
170:Rock outcrop	3251:Jawbone association, 8 to 50 percent slopes
171:Rosamond clay loam	3270:Hoffman-Tips-Pilotwell association, 15 to 50 percent slopes
172:Rosamond clay loam, saline-alkali	3275:Xyno-Rock outcrop-Canebrake association, 30 to 60 percent slopes
179:Tehachapi sandy loam, 2 to 15 percent slopes	3280:Typic Torriorthents-Rock outcrop association, 30 to 60 percent slopes
189:Tweedy sandy loam, 30 to 50 percent slopes	3301:Cutterbank association, 15 to 60 percent slopes
190:Tweedy sandy loam, 50 to 75 percent slopes	330:Kernville-Faycreek-Rock outcrop complex, 30 to 75 percent slopes
193:Walong sandy loam, 15 to 30 percent slopes	3430:Pasopeak-Rock outcrop association, 30 to 75 percent slopes
194:Walong sandy loam, 30 to 50 percent slopes	3630:Koehn coarse sand, 2 to 8 percent slopes
195:Walong-Arujo sandy loams, 15 to 30 percent slopes	3670:Inyo gravelly loamy coarse sand, 0 to 9 percent slopes, occasionally flooded
201:Cieneba-Rock outcrop complex, 15 to 50	400:Rock outcrop
204:Whitewolf loamy sand, cool, 2 to 5 percent slopes	4160:Dovecanyon-Cutterbank association, 4 to 50 percent slopes
205:Xererts-Xerolls complex, steep	4161:Dovecanyon loamy sand, 2 to 8 percent slopes
206:Xeric Torriorthents, very steep	4170:Dovecanyon association, 2 to 8 percent slopes
208:Xerolls-Rock outcrop complex, very steep	4171:Dovecanyon-Koehn association, 2 to 8 percent slopes
210:Kernfork fine sandy loam, 0 to 2 percent slopes, occasionally flooded	420:Rock outcrop-Cieneba complex, 50 to 75 percent slopes
211:Xerorthents-Rock outcrop complex, very steep	421:Rock outcrop-Tollhouse complex, 15 to 30 percent slopes
212:Kernfork fine sandy loam, 0 to 2 percent slopes, frequently flooded	4240:Chollawell gravelly sandy loam, 5 to 15 percent slopes
215:Kelval loamy sand, 0 to 2 percent slopes, occasionally flooded	4241:Chollawell-Inyo complex, 5 to 15 percent slopes
216:Inyo-Riverwash complex, 0 to 5 percent slopes, frequently flooded	4242:Chollawell gravelly loamy coarse sand, 5 to 20 percent slopes
222:Kelval fine sandy loam, 0 to 2 percent slopes, occasionally flooded	430:Rock outcrop-Chawanakee-Chaix complex, 15 to 30 percent slopes
223:Kelval stony sandy loam, 0 to 2 percent slopes, occasionally flooded	4430:Koehn sand, 2 to 8 percent slopes
224:Inyo gravelly loamy coarse sand, 0 to 9 percent slopes, occasionally flooded	4431:Koehn sand, 2 to 4 percent slopes, frequently flooded
236:Livermore family-Rock outcrop complex, 30 to 50 percent slopes	4432:Koehn association, 2 to 4 percent slopes
241:Inyo gravelly loamy coarse sand, 0 to 5 percent slopes	444:Rock outcrop-Brader-Siskiyou families complex, 20 to 60 percent slopes
242:Inyo gravelly loamy coarse sand, 5 to 15 percent slopes	445:Rock outcrop-Cieneba-Brader family complex, 50 to 75 percent slopes
243:Kernfork loam, saline-sodic, 0 to 2 percent slopes, occasionally flooded	446:Siskiyou-Brader families-Rock outcrop complex, 5 to 30 percent slopes
245:Chollawell gravelly loamy coarse sand, 2 to 5 percent slopes	447:Siskiyou family-Rock outcrop-Brader family complex, 30 to 75 percent slopes
246:Chollawell gravelly loamy coarse sand, 5 to 15 percent slopes	500:Tollhouse-Rock outcrop complex, 10 to 30 percent slopes
247:Inyo-Tips-Rock outcrop complex, 5 to 30 percent slopes	501:Hyte-Erskine-Sorrell association, 30 to 60 percent slopes
249:Hoffman-Rock outcrop complex, 30 to 50 percent slopes	503:Tips-Erskine-Rock outcrop association, 30 to 60 percent slopes
250:Hoffman-Tips-Pilotwell association, 15 to 50 percent slopes	505:Chollawell gravelly loamy coarse sand, 5 to 20 percent slopes
253:Sorrell-Martee-Rock outcrop complex, 30 to 60 percent slopes	508:Pilotwell-Xyno-Rock outcrop association, 30 to 60 percent slopes
254:Martee-Rock outcrop complex, 30 to 60 percent slopes	512:Chollawell gravelly sandy loam, cobbly substratum, 5 to 15 percent slopes
257:Hoffman-Tips-Rock outcrop association, 20 to 45 percent slopes	514:Chollawell-Inyo complex, 5 to 15 percent slopes
259:Cowspring gravelly loamy coarse sand, 15 to 50 percent slopes	516:Xyno-Rock outcrop-Canebrake association, 30 to 60 percent slopes
260:Cowspring-Tips-Rock outcrop complex, 30 to 50 percent slopes	5201:Wingap-Pinyonpeak association, 8 to 30 percent slopes
261:Blasingame-Arujo-Cieneba association, 15 to 45 percent slopes	5205:Scodie-Grandora association, 15 to 60 percent slopes
264:Arujo-Walong-Tunis association, 9 to 30 percent slopes	5210:Grandora-Pinyonpeak association, 8 to 60 percent slopes
265:Arujo sandy loam, 9 to 15 percent slopes	541:Canebrake-Lachim-Rock outcrop complex, 30 to 60 percent slopes
268:Tunis-Tollhouse-Sorrell association, 30 to 75 percent slopes	554:Deerspring fine sandy loam, 0 to 5 percent slopes
269:Tollhouse-Sorrell-Rock outcrop complex, 30 to 60 percent slopes	561:Scodie-Sacatar-Canebrake complex, 5 to 30 percent slopes
270:Locobill-Backcanyon-Sesame complex, 20 to 60 percent slopes	6001:Goldpeak-Pinyonpeak-Wingap complex, 2 to 30 percent slopes
272:Tollhouse-Edmundston-Sorrell association, 15 to 50 percent slopes	6002:Goldpeak gravelly loamy sand, 2 to 8 percent slopes
274:Sesame-Tweedy-Rock outcrop association, 30 to 60 percent slopes	621:Dowe-Chaix-Rock outcrop association, moderately steep
275:Strahle-Sesame-Tweedy association, 30 to 75 percent slopes	6601:Pinyonpeak-Wingap-Rock outcrop association, 8 to 30 percent slopes
276:Tips-Hoffman-Cinco association, 30 to 60 percent slopes	666:Wind River family-Rock outcrop association, moderately steep
279:Strahle-Rock outcrop-Sesame association, 30 to 60 percent slopes	675:Woolstalf-Rock outcrop complex, 10 to 30 percent slopes
280:Tollhouse-Martee-Edmundston association, 30 to 50 percent slopes	676:Woolstalf-Rock outcrop complex, 30 to 50 percent slopes
281:Havala-Walong-Kernfork association, 1 to 20 percent slopes	687:Wind River family-Dome-Rock outcrop association, moderately steep
	NOTCOM:Mapping incomplete



Source: Bureau of Land Management, TRA, Kern County, California Department of Recreation, CGS

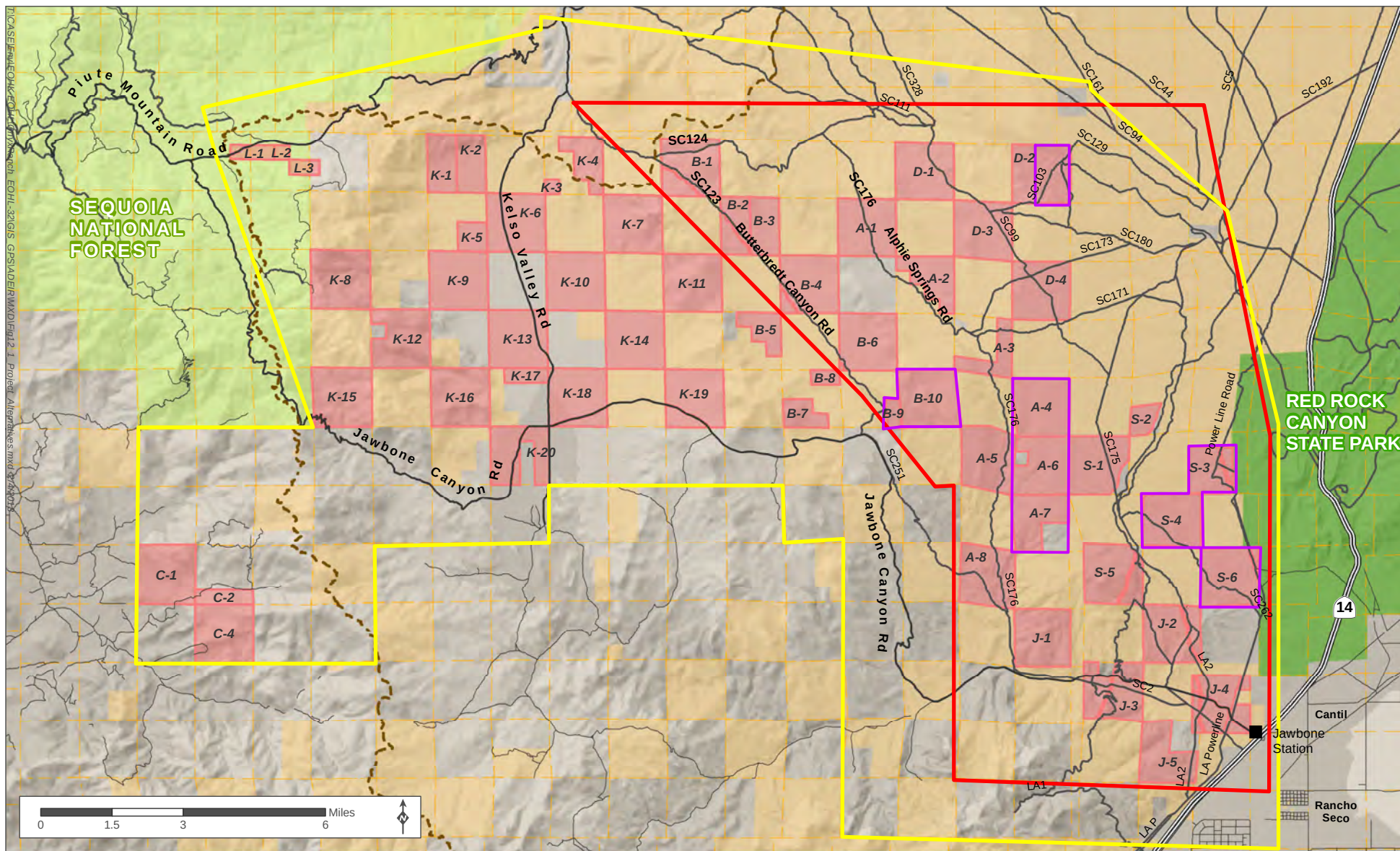
- | | | |
|--|--|--|
| <ul style="list-style-type: none"> ■ Visitor Center ══ State Route — Local Roads — Other Local Roads — 4WD & OHV Designated Routes - - - Pacific Crest Trail (USFS 2008) | <ul style="list-style-type: none"> ▭ Project Parcels ▭ Open Area | <p>Erosion Hazard Rating</p> <ul style="list-style-type: none"> very high high moderate low |
|--|--|--|



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Figure 8-3 Erosion Hazard Rating

Eastern Kern County Acquisition Draft EIR



Source: Bureau of Land Management, CalTrans, TRA, Kern County, California Department of Recreation

- | | | | | |
|-------------------------------|-----------------------------------|-------------------------------|------------------------------------|------------------------------|
| ■ Visitor Center | == State Route | ■ Project Parcels | ■ Reduced Acquisition Alternative | ■ Resource Sensitive Parcels |
| — Local Roads | — Other Local Roads | ■ California State Parks | ■ Expanded Acquisition Alternative | |
| — 4WD & OHV Designated Routes | — Pacific Crest Trail (USFS 2008) | ■ Bureau of Land Management | | |
| | | ■ US Forest Service | | |
| | | ■ Public Land Survey Sections | | |



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Figure 12-1 Project Alternatives
Eastern Kern County Acquisition Draft EIR

