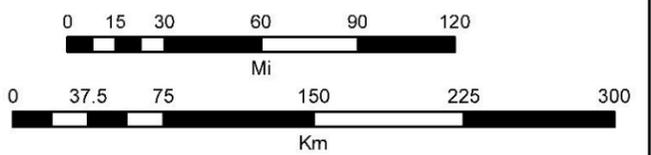
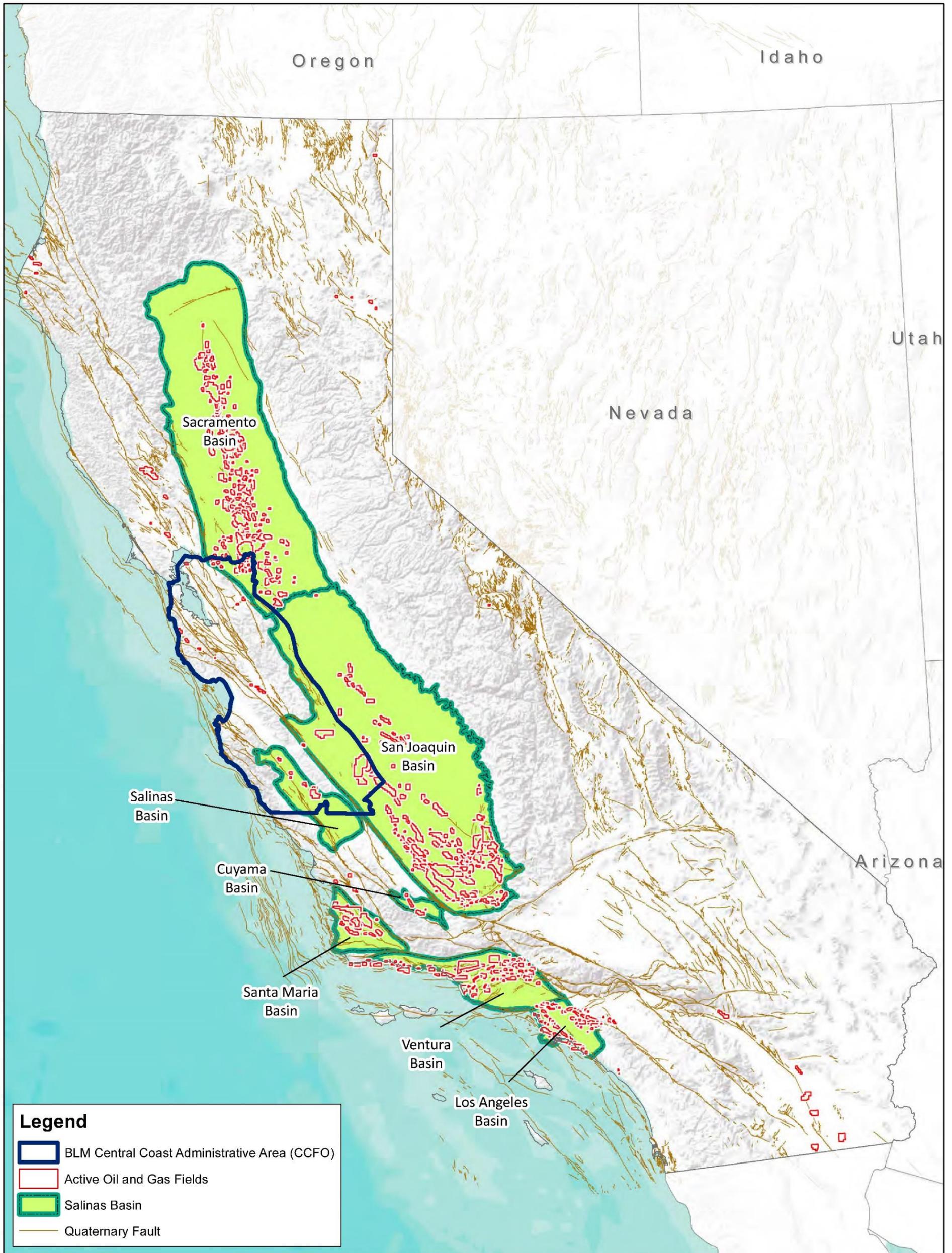


BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 1-1
Federal Mineral Estate within the BLM Central Coast Field Office Administrative Area

Date: December 2016



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U.S. DEPARTMENT OF THE INTERIOR
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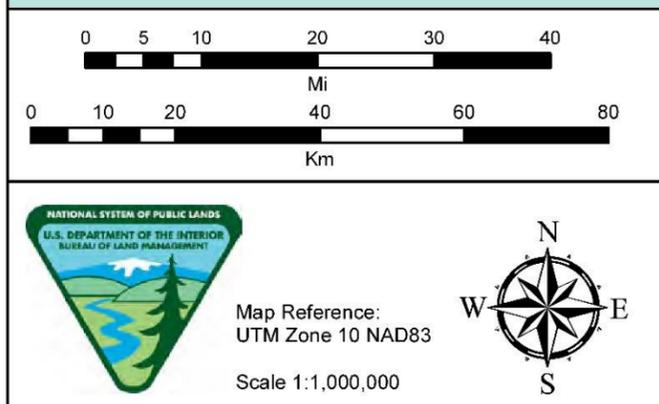
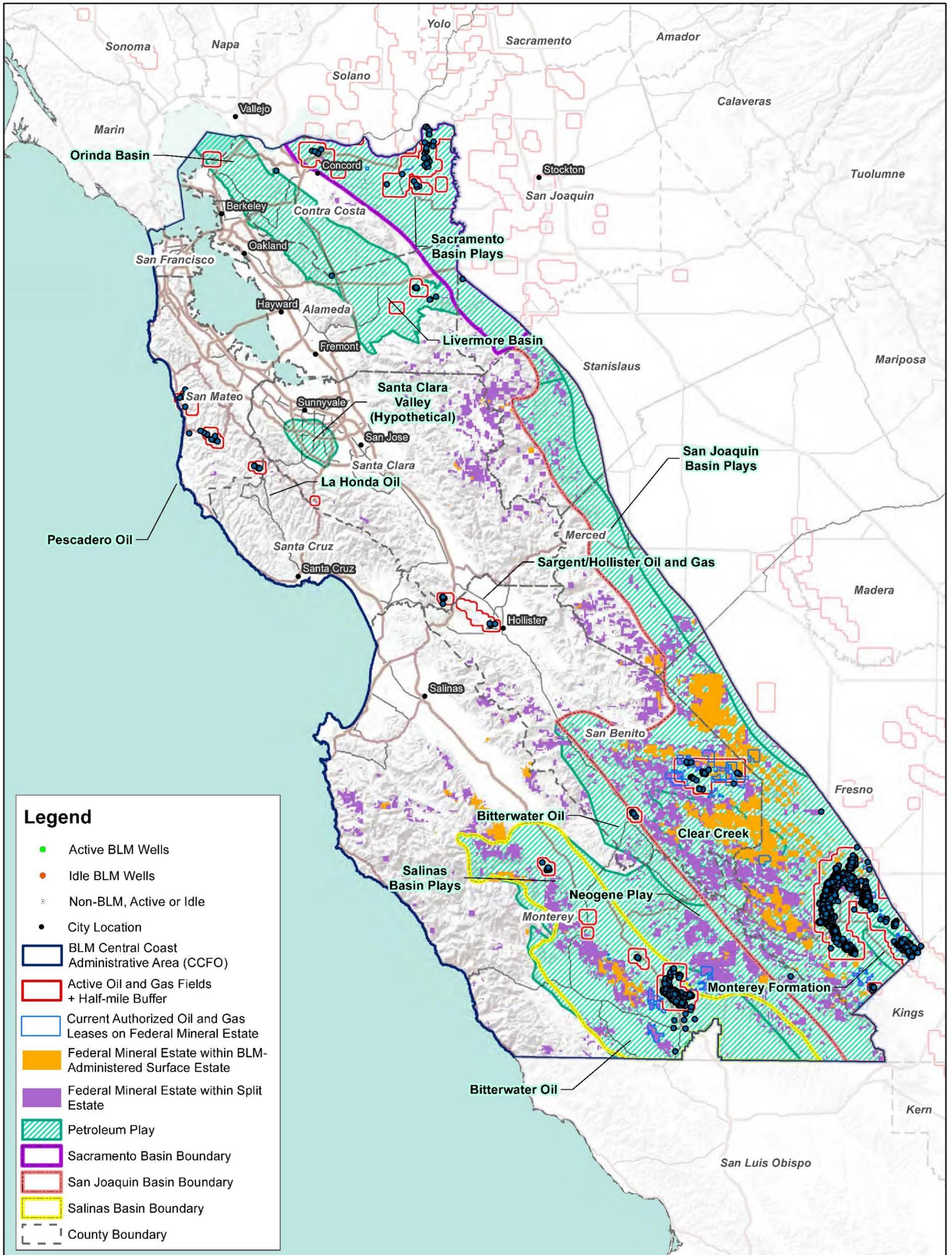
Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 1-2
Major Sedimentary Basins and
Faults in California

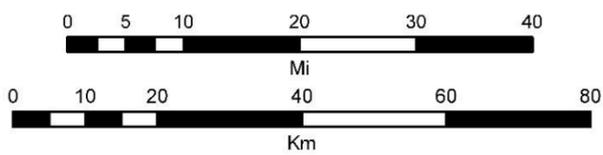
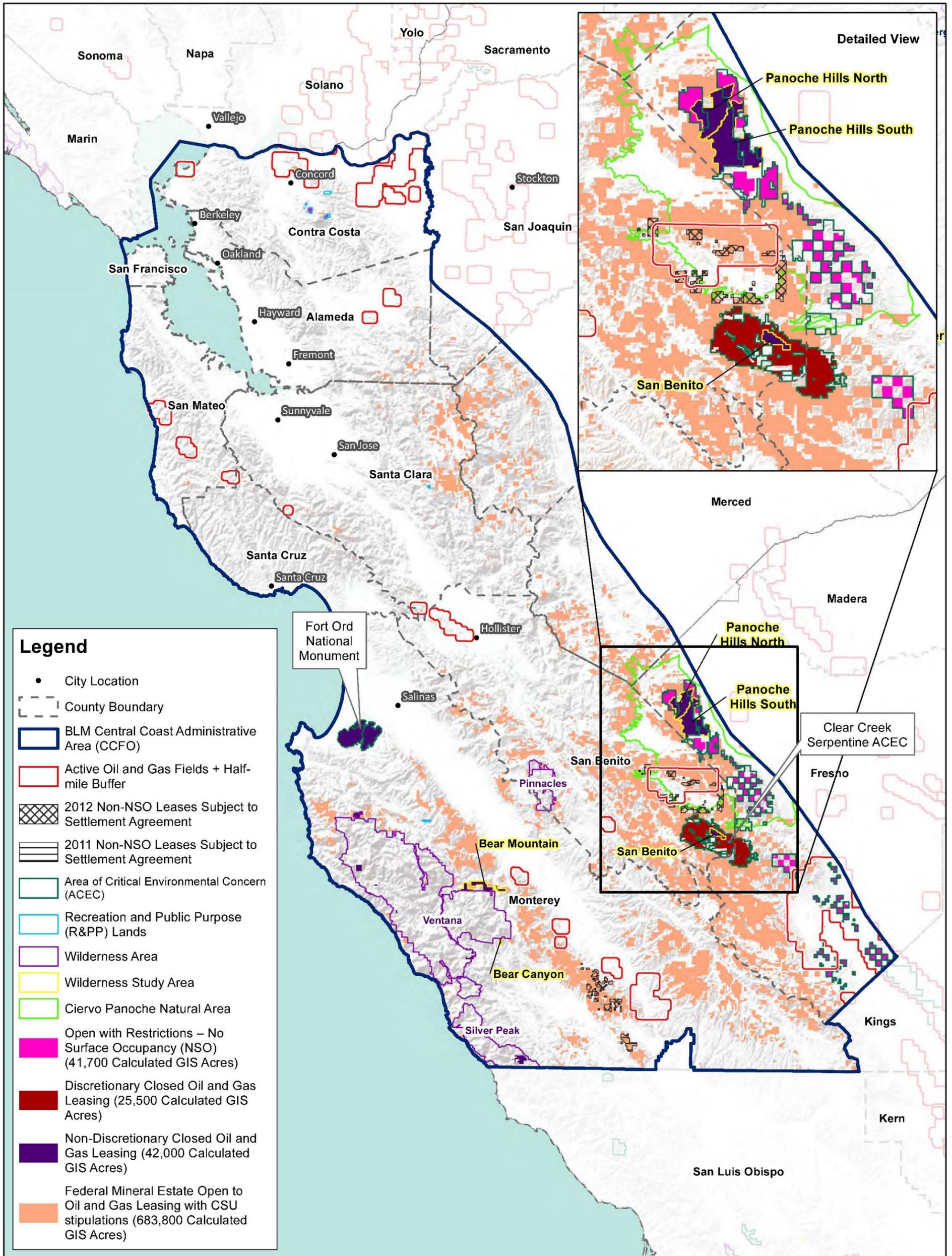
Date: December 2016



BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 1-3
Plays and Active Oil and Gas Wells within the BLM Central Coast Field Office Administrative Area

Date: December 2016



Source: BLM, 2015

Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000

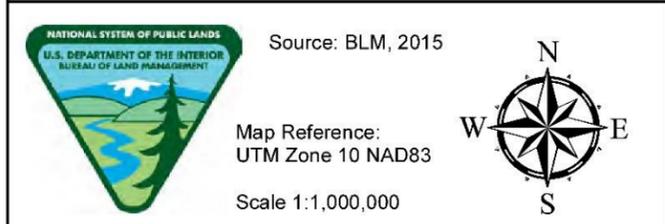
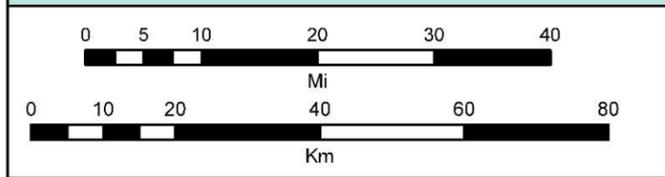
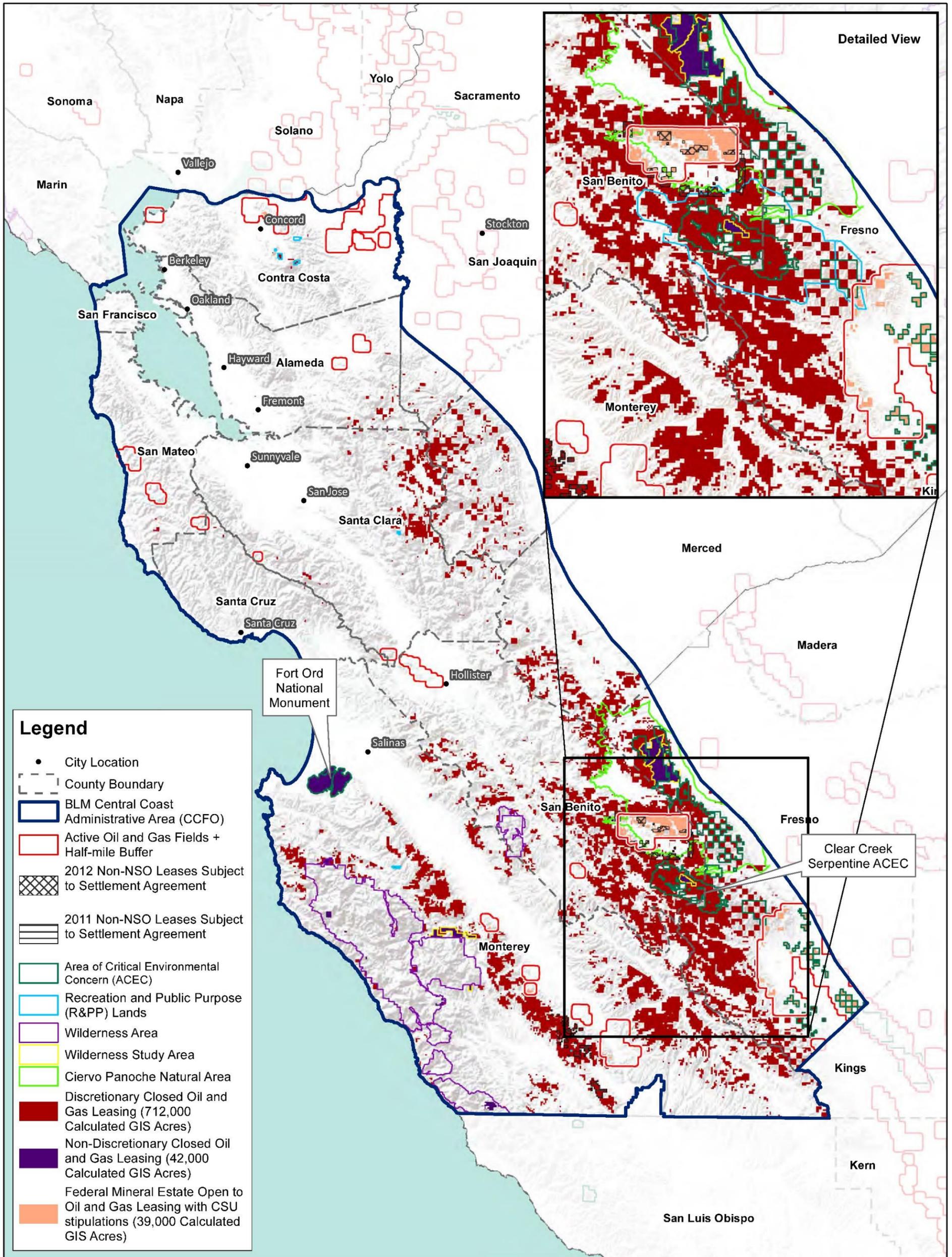


BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 2-1

**Alternative A
(No Action Alternative)**

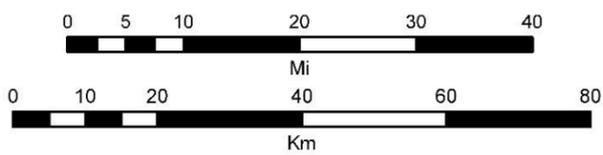
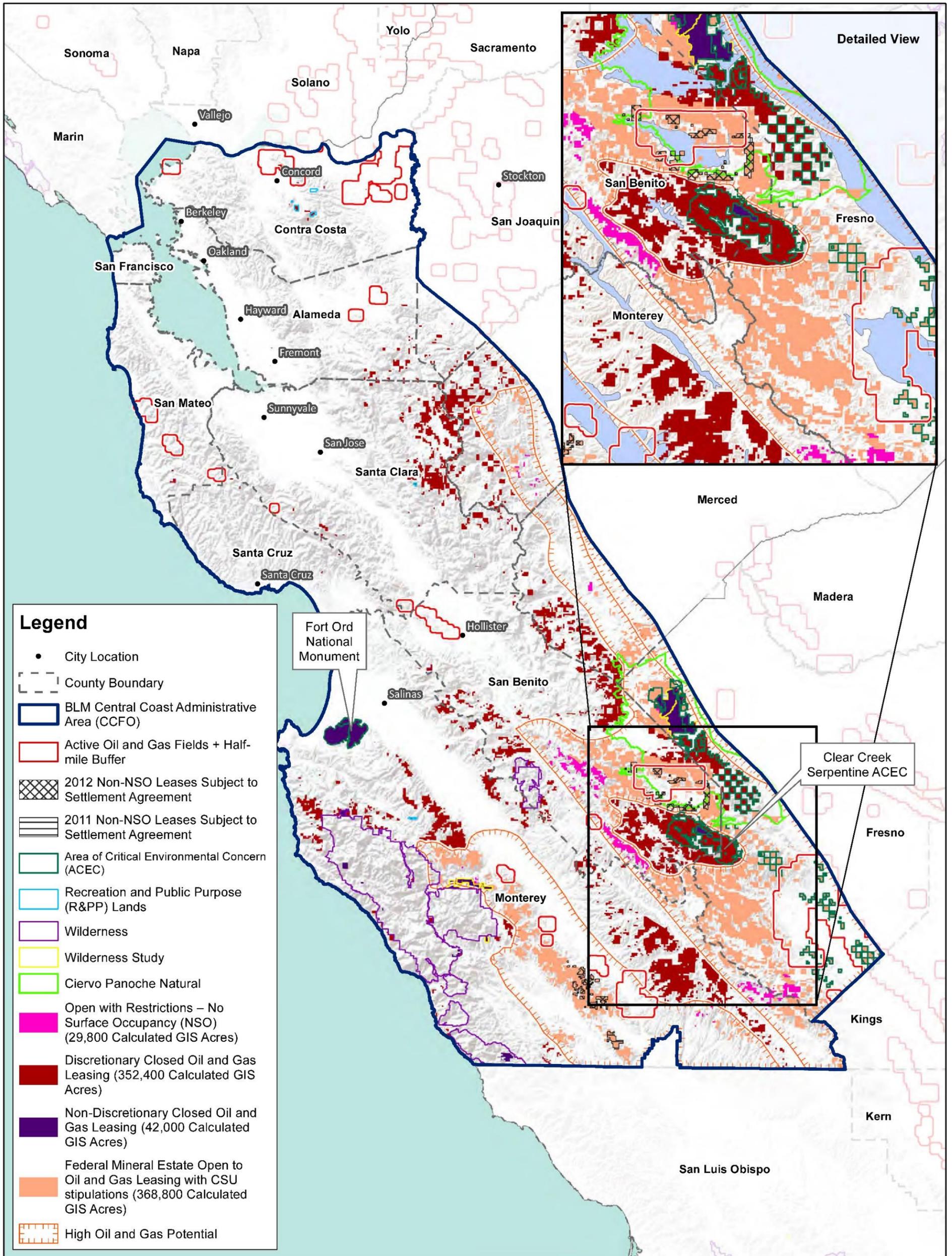
Date: December 2016



BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 2-2
Alternative B

Date: December 2016



Source: BLM, 2015

Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000

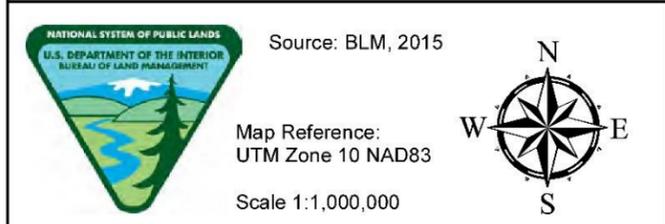
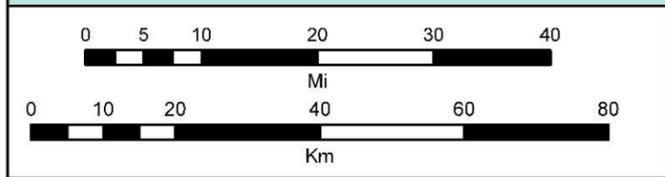
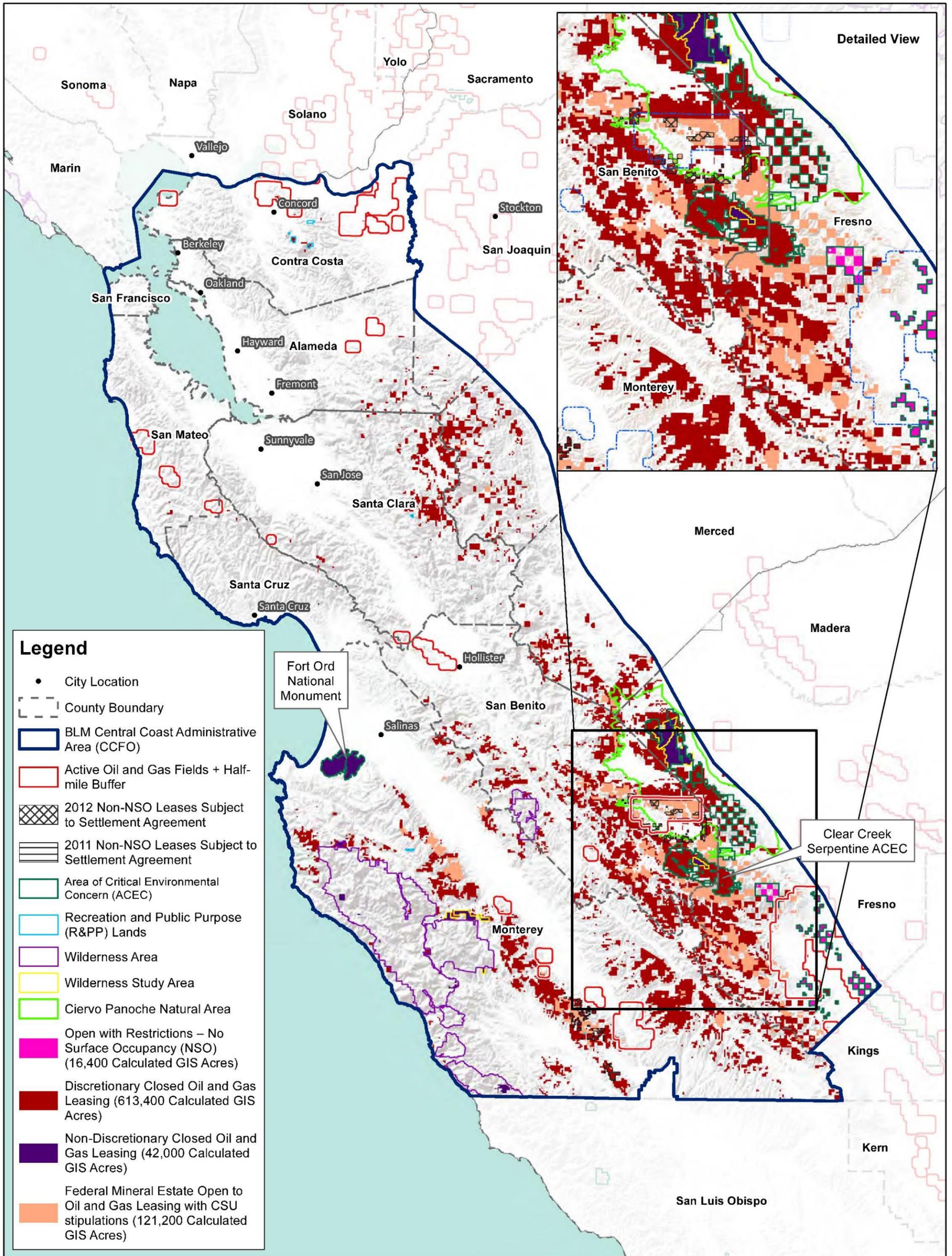


BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 2-3

Alternative C

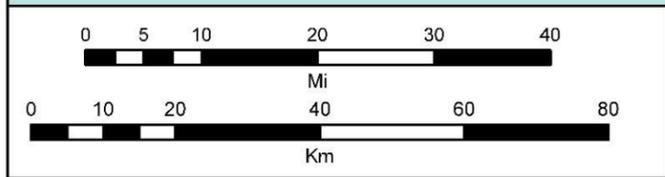
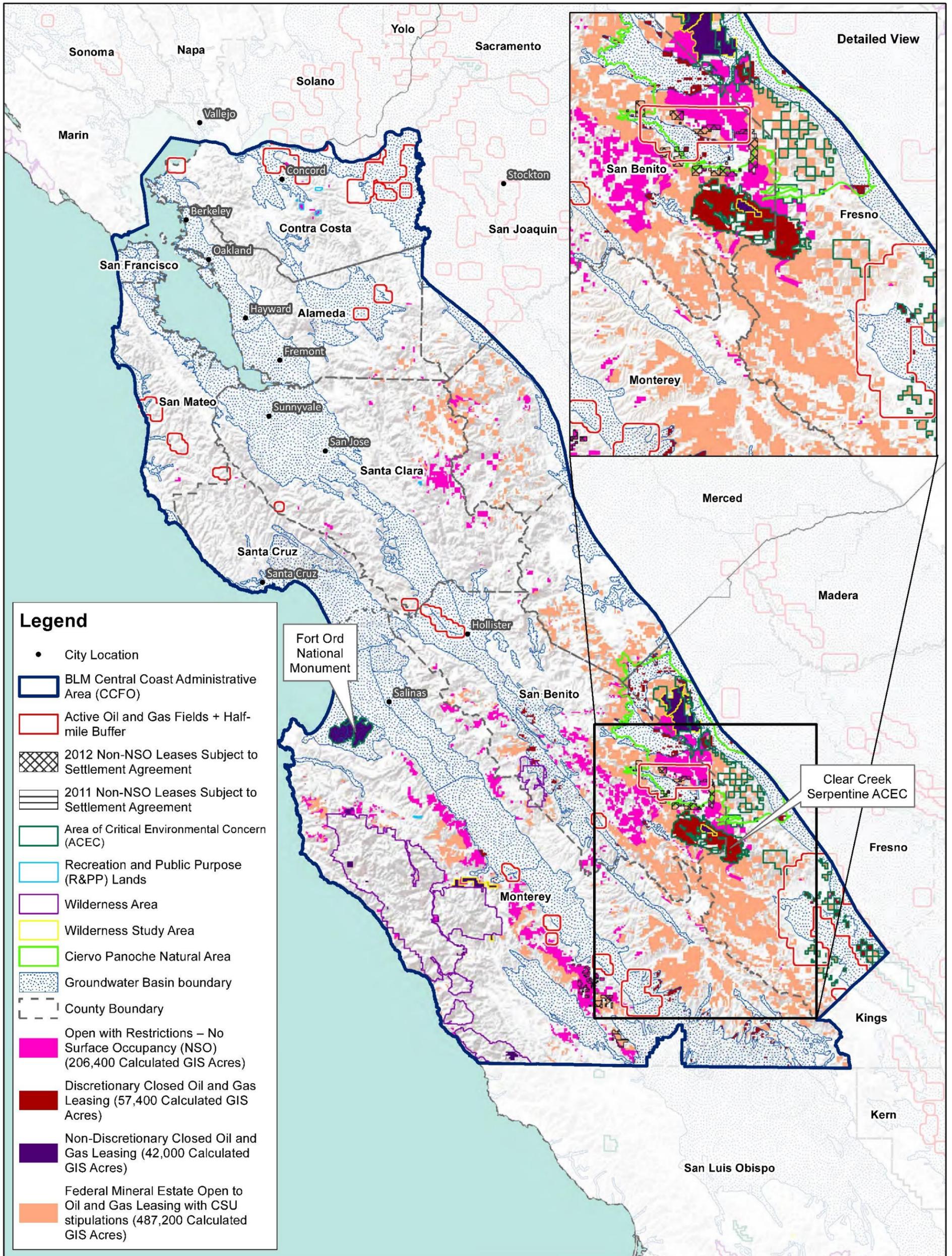
Date: December 2016



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CENTRAL COAST FIELD OFFICE

Figure 2-4
Alternative D

Date: December 2016



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Source: BLM, 2015

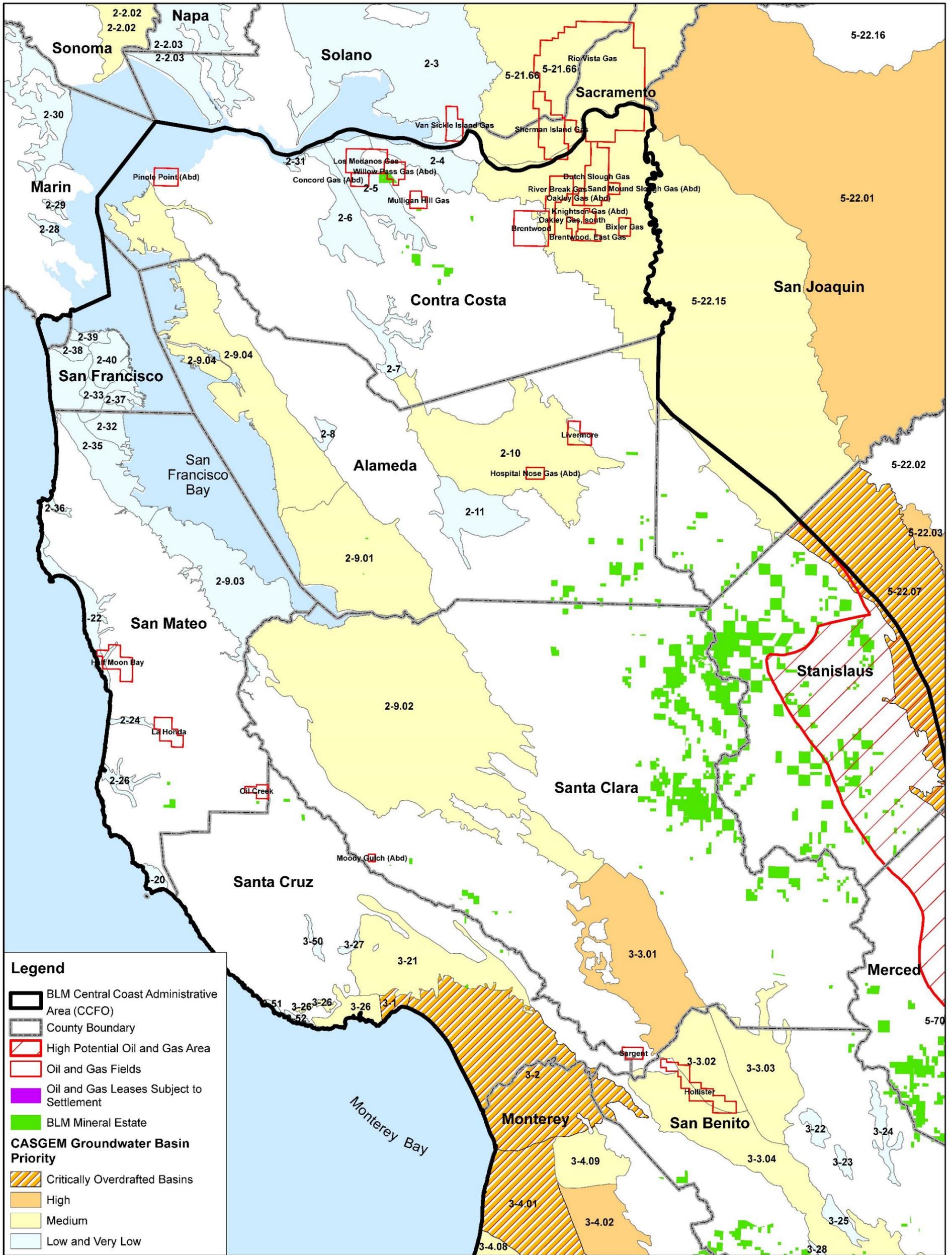
Map Reference:
UTM Zone 10 NAD83

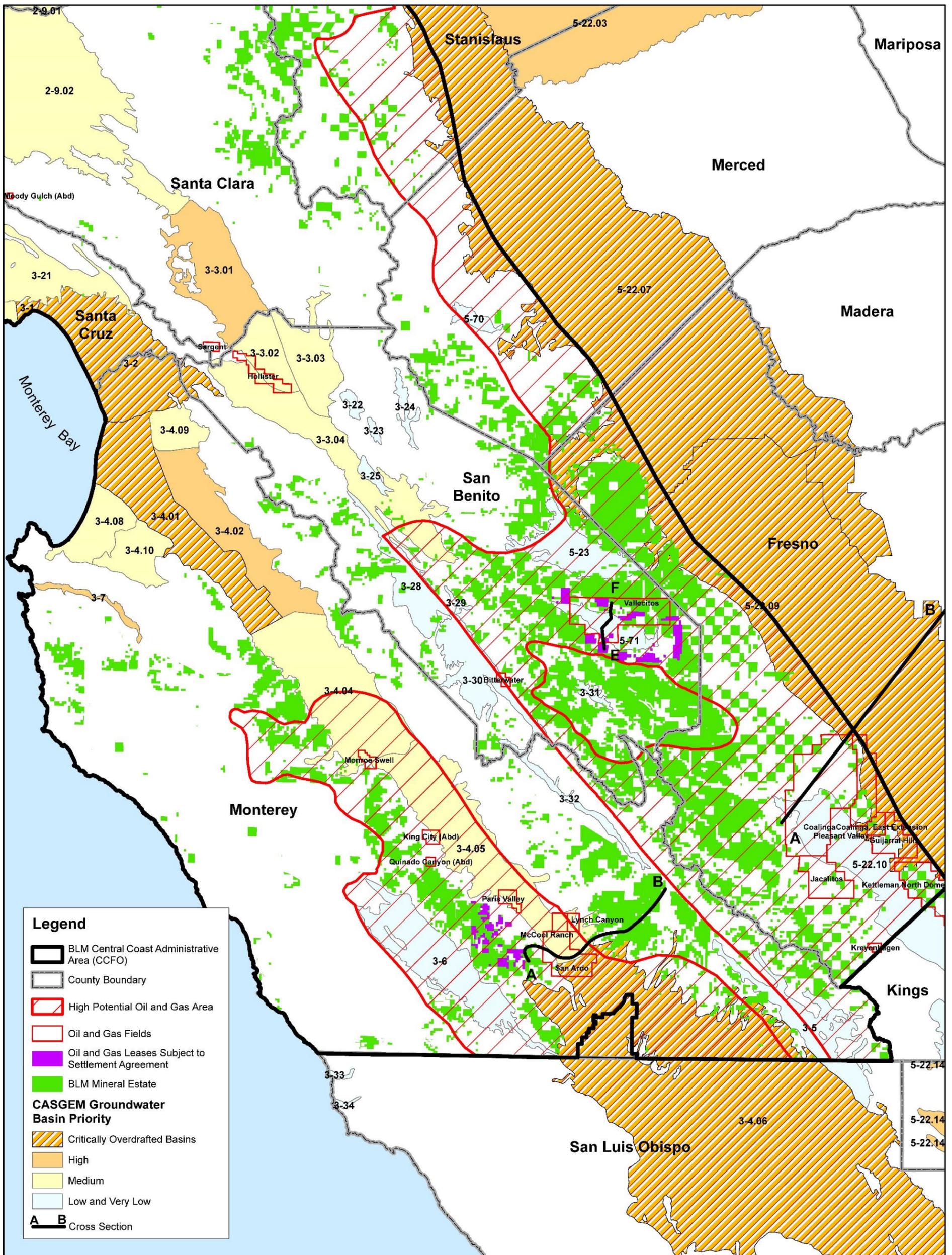
Scale 1:1,000,000

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 2-5
Alternative E

Date: December 2016





BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.7-3

Southern CCFO Planning Area
and Priority Groundwater Basins



Source: BLM, 2015

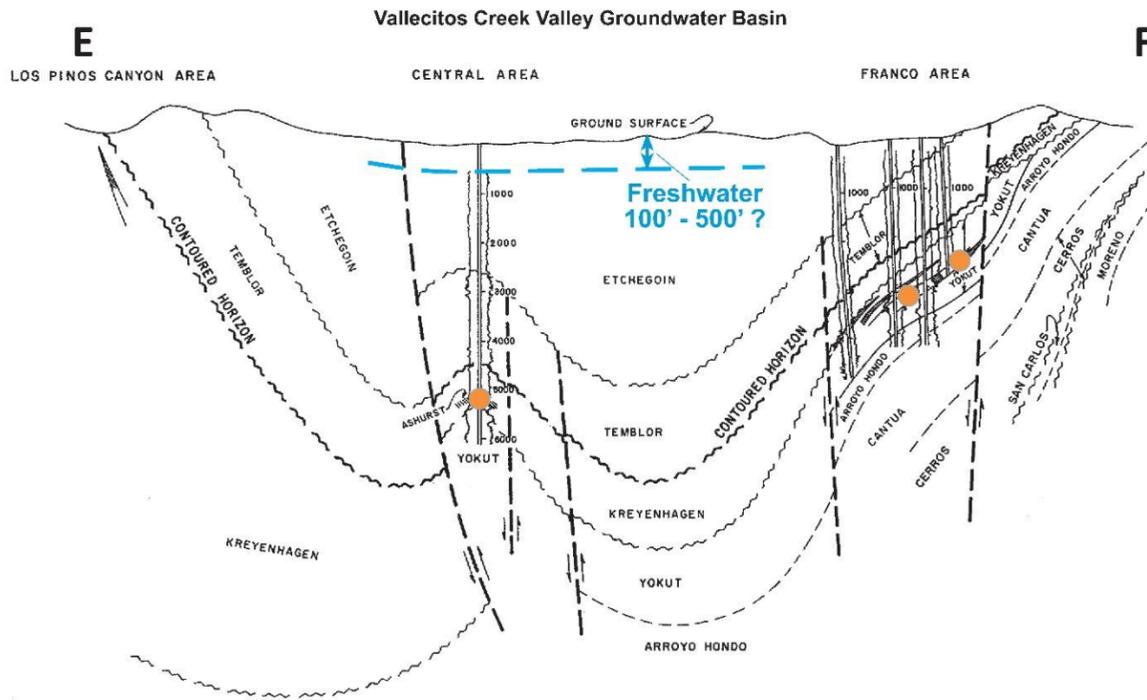
Map Reference:
UTM Zone 10 NAD83

Scale 1:650,000

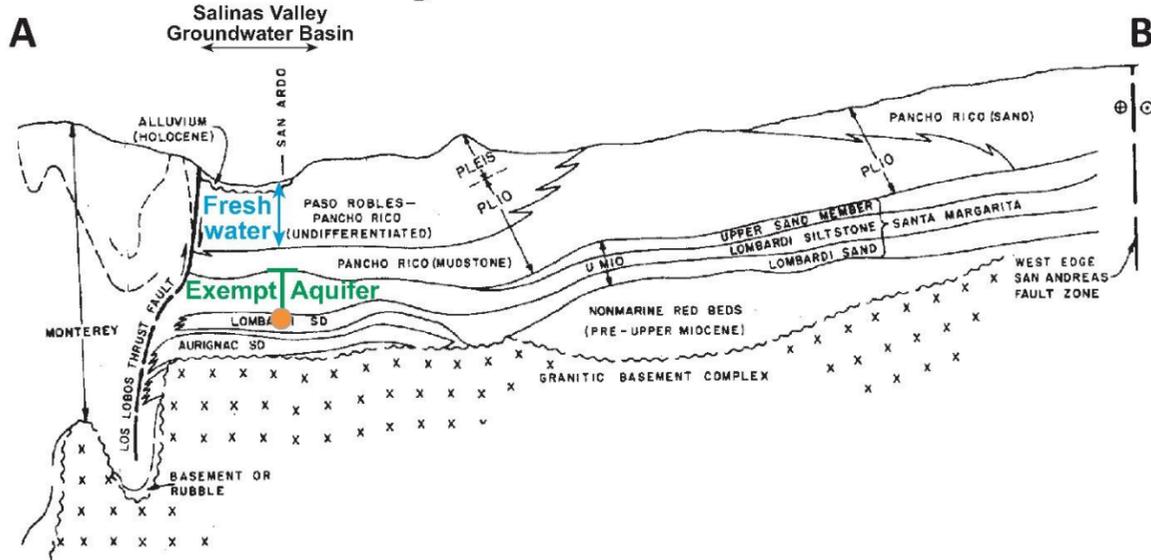


Date: December 2016

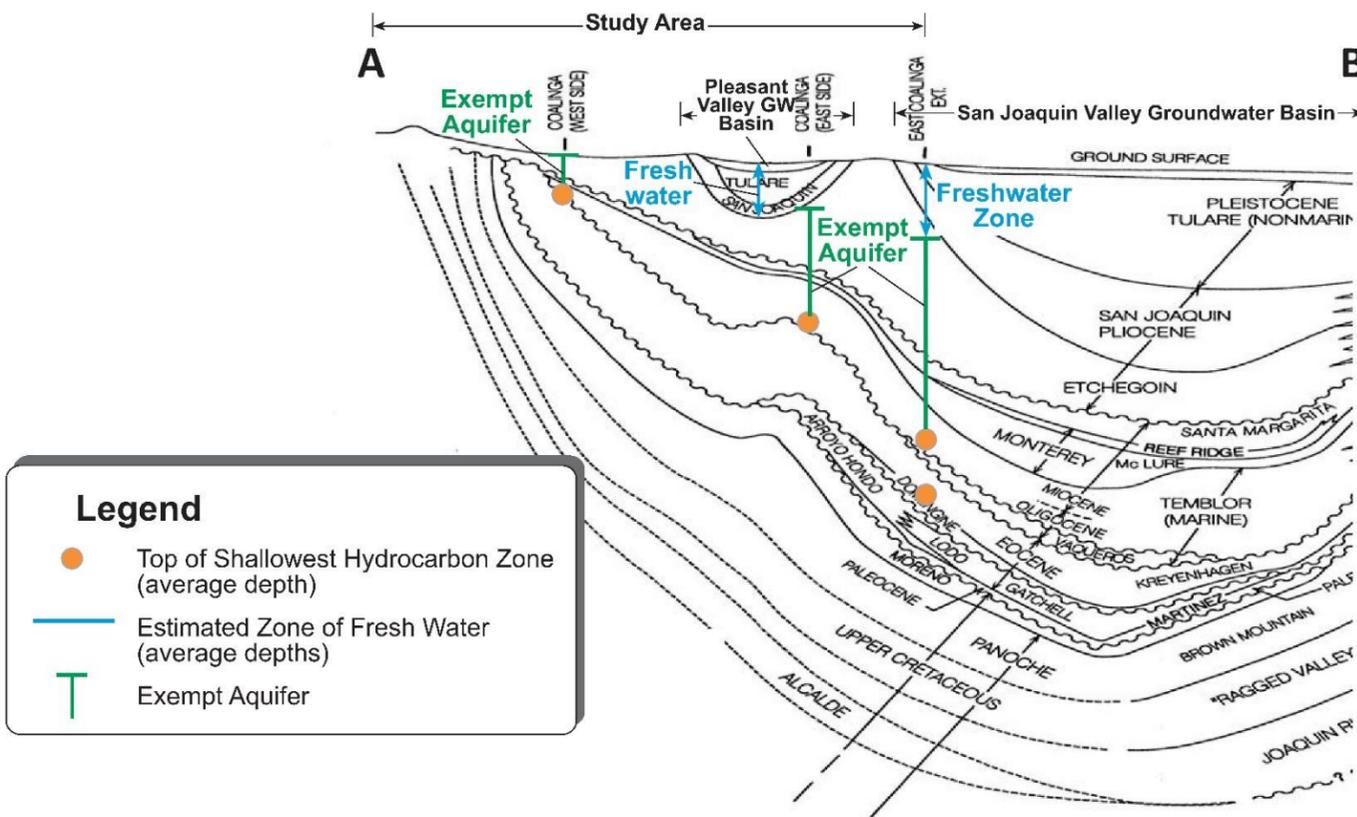
Vallecitos Oil Field - Southeastern CCFO Area



Salinas Valley - Southwestern CCFO Area



West Side San Joaquin Valley - Southeastern CCFO Area



BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

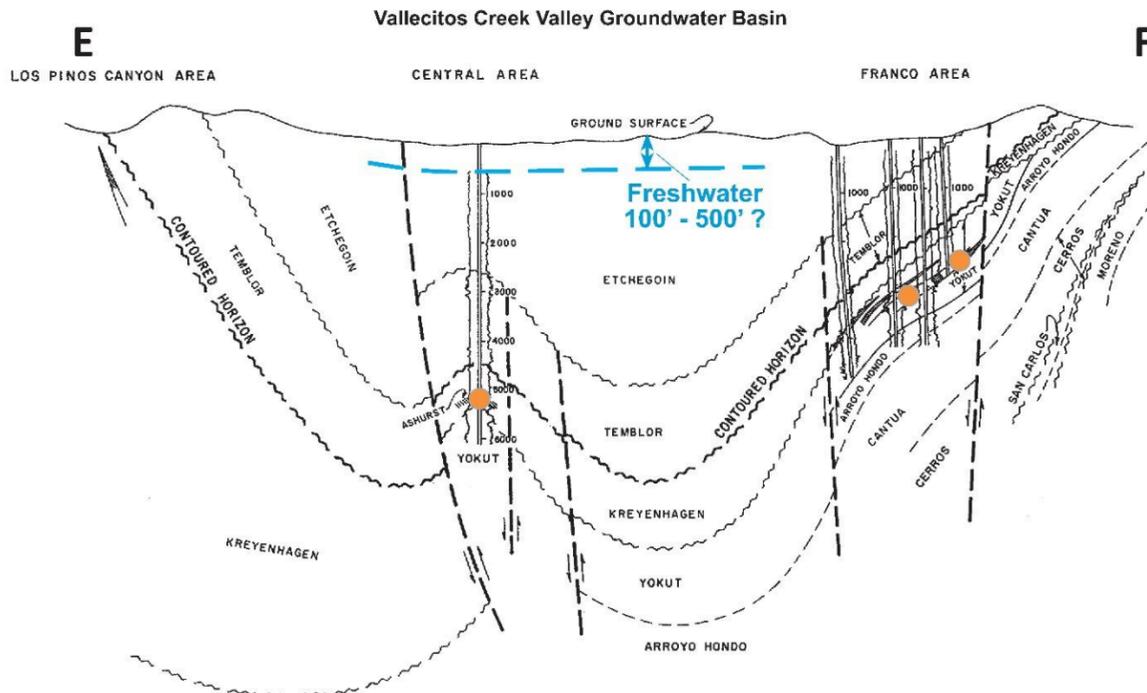
Figure 3.7-4

Example Geologic Cross Sections, Southern CCFO Planning Area

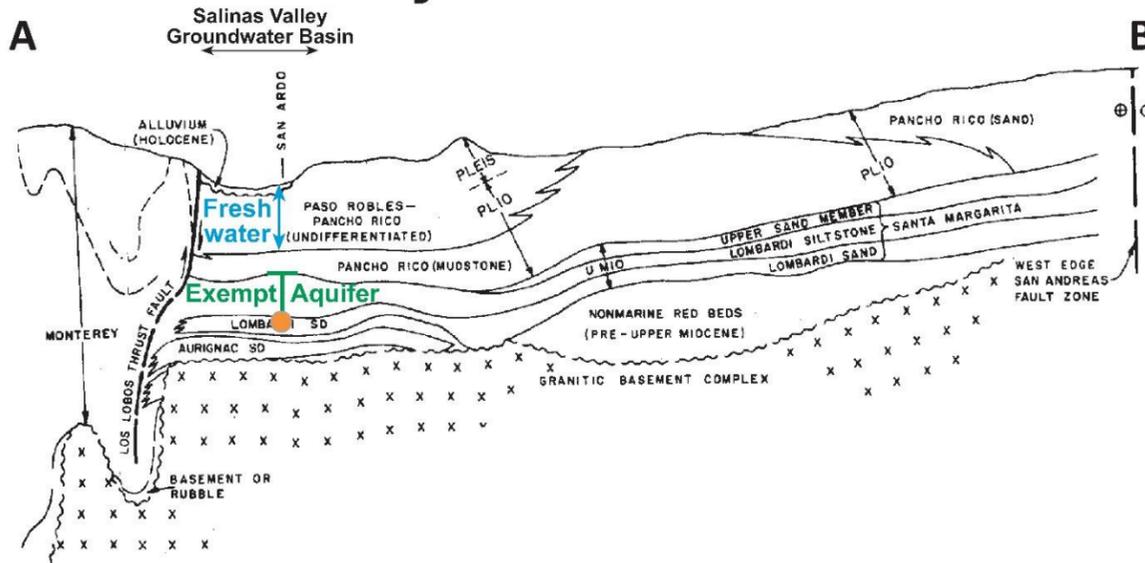
Date: December 2016



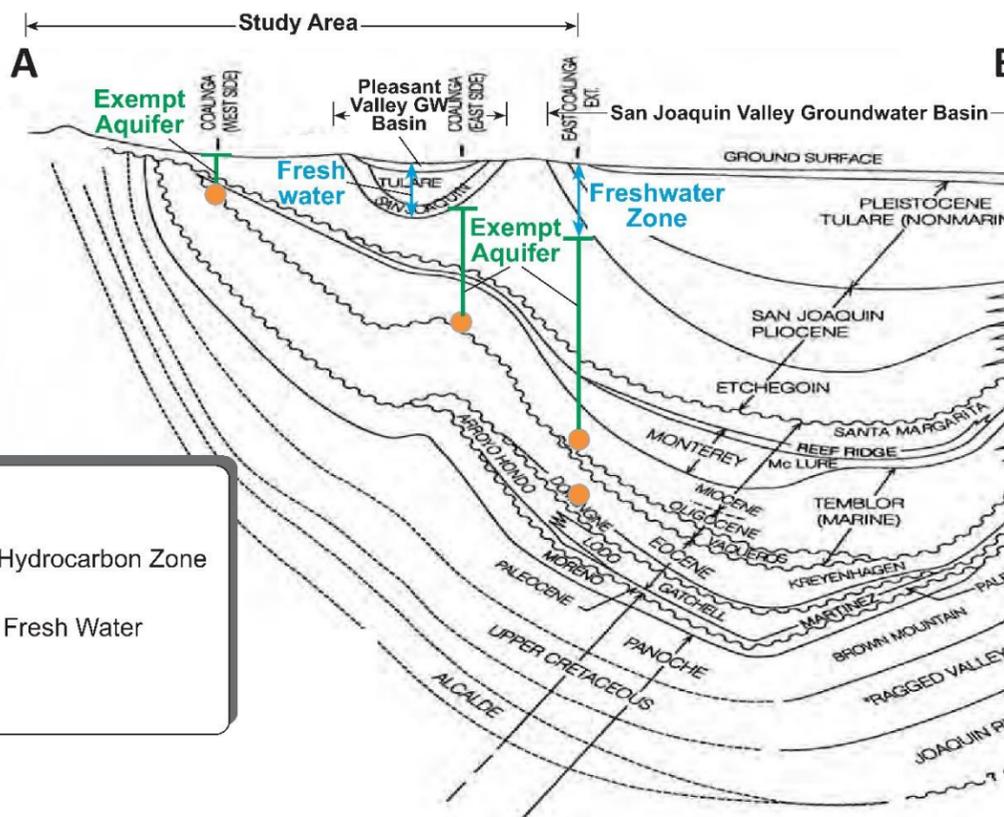
Vallecitos Oil Field - Southeastern CCFO Area



Salinas Valley - Southwestern CCFO Area



West Side San Joaquin Valley - Southeastern CCFO Area



Legend

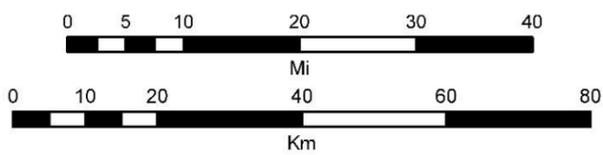
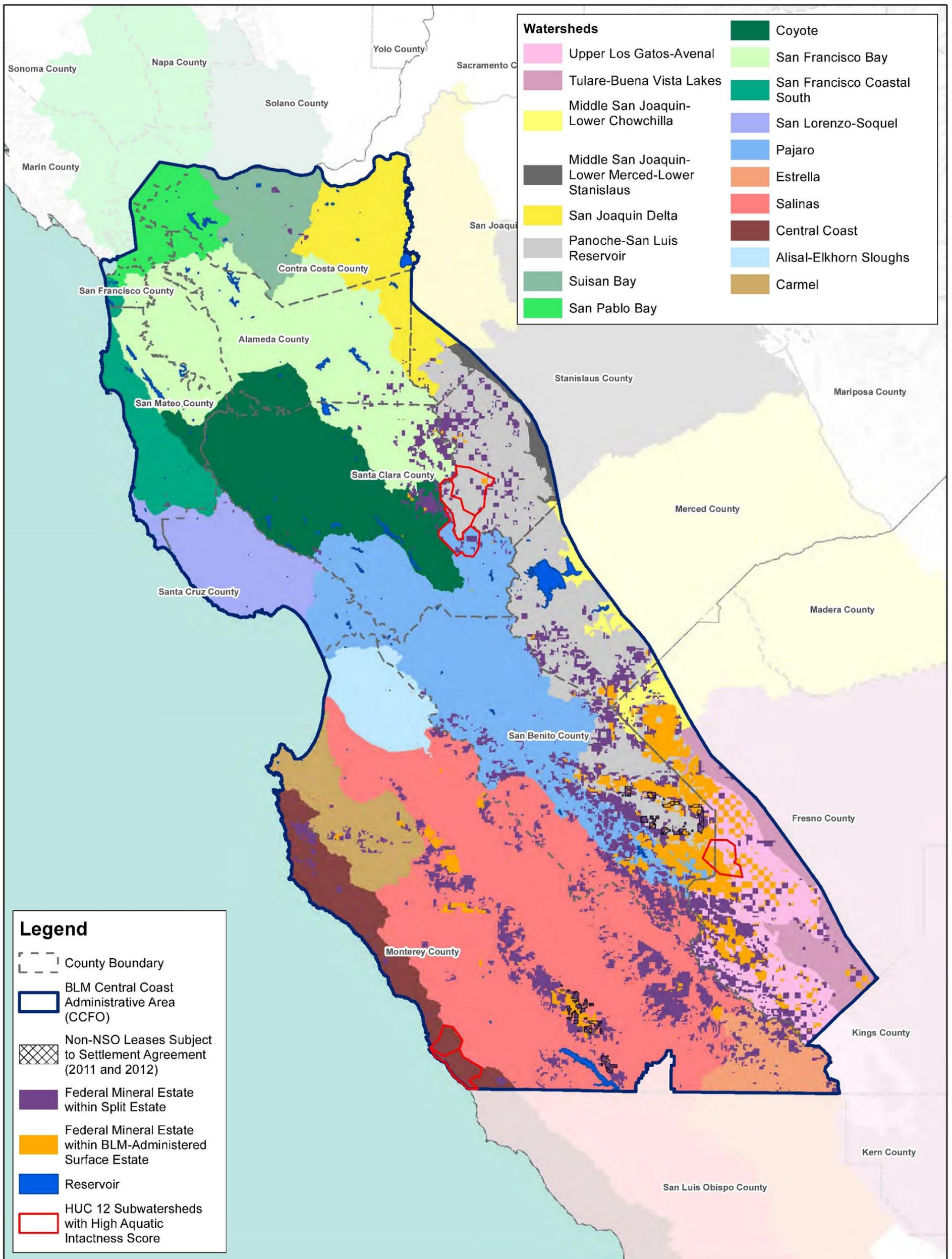
- Top of Shallowest Hydrocarbon Zone (average depth)
- Estimated Zone of Fresh Water (average depths)
- T Exempt Aquifer

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.7-4

Example Geologic Cross Sections, Southern CCFO Planning Area





Source: BLM, 2015

Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000

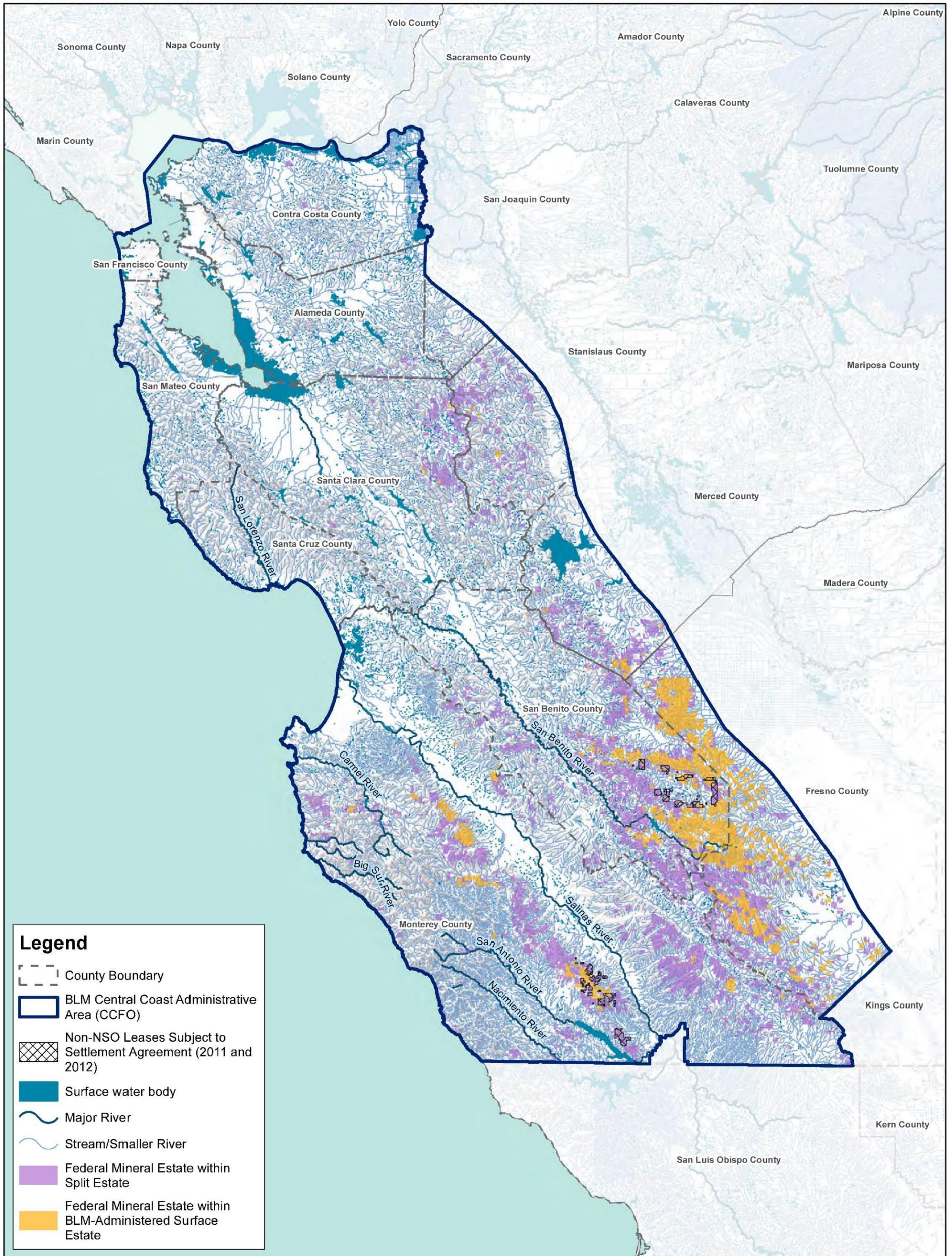


BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.8-1

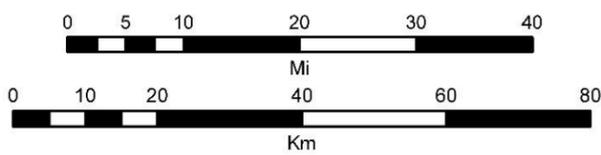
Watersheds and Reservoirs

Date: December 2016



BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.8-2
Surface Waters



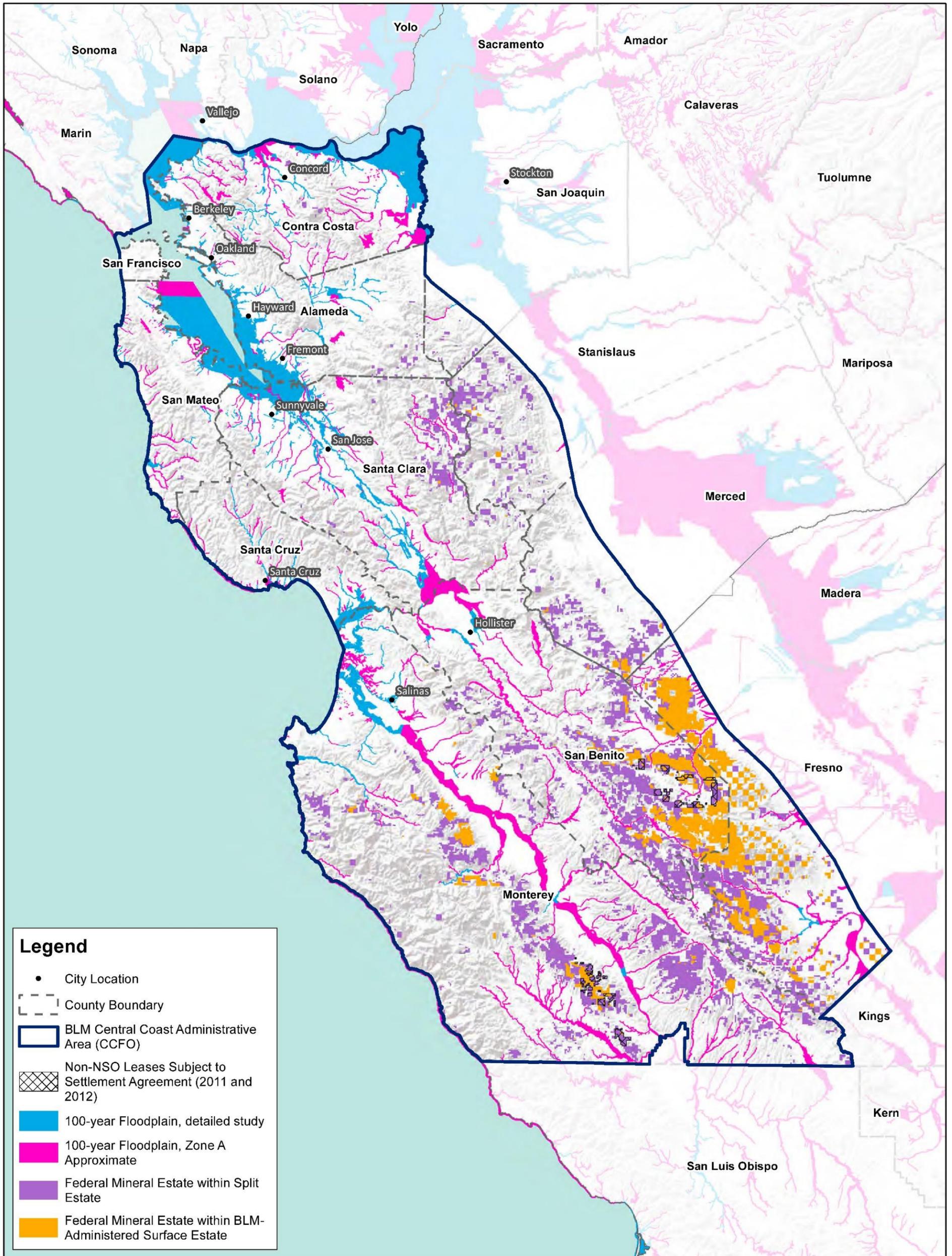
Source: BLM, 2015

Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000

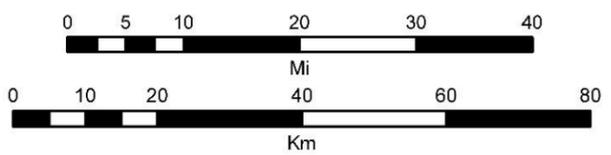


Date: December 2016



Legend

- City Location
- - - County Boundary
- ▭ BLM Central Coast Administrative Area (CCFO)
- ▨ Non-NSO Leases Subject to Settlement Agreement (2011 and 2012)
- 100-year Floodplain, detailed study
- 100-year Floodplain, Zone A Approximate
- Federal Mineral Estate within Split Estate
- Federal Mineral Estate within BLM-Administered Surface Estate



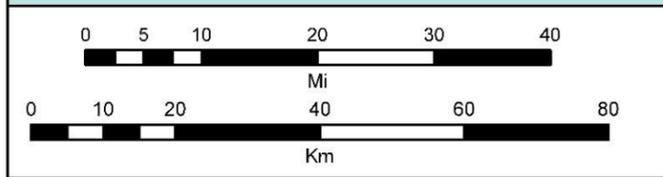
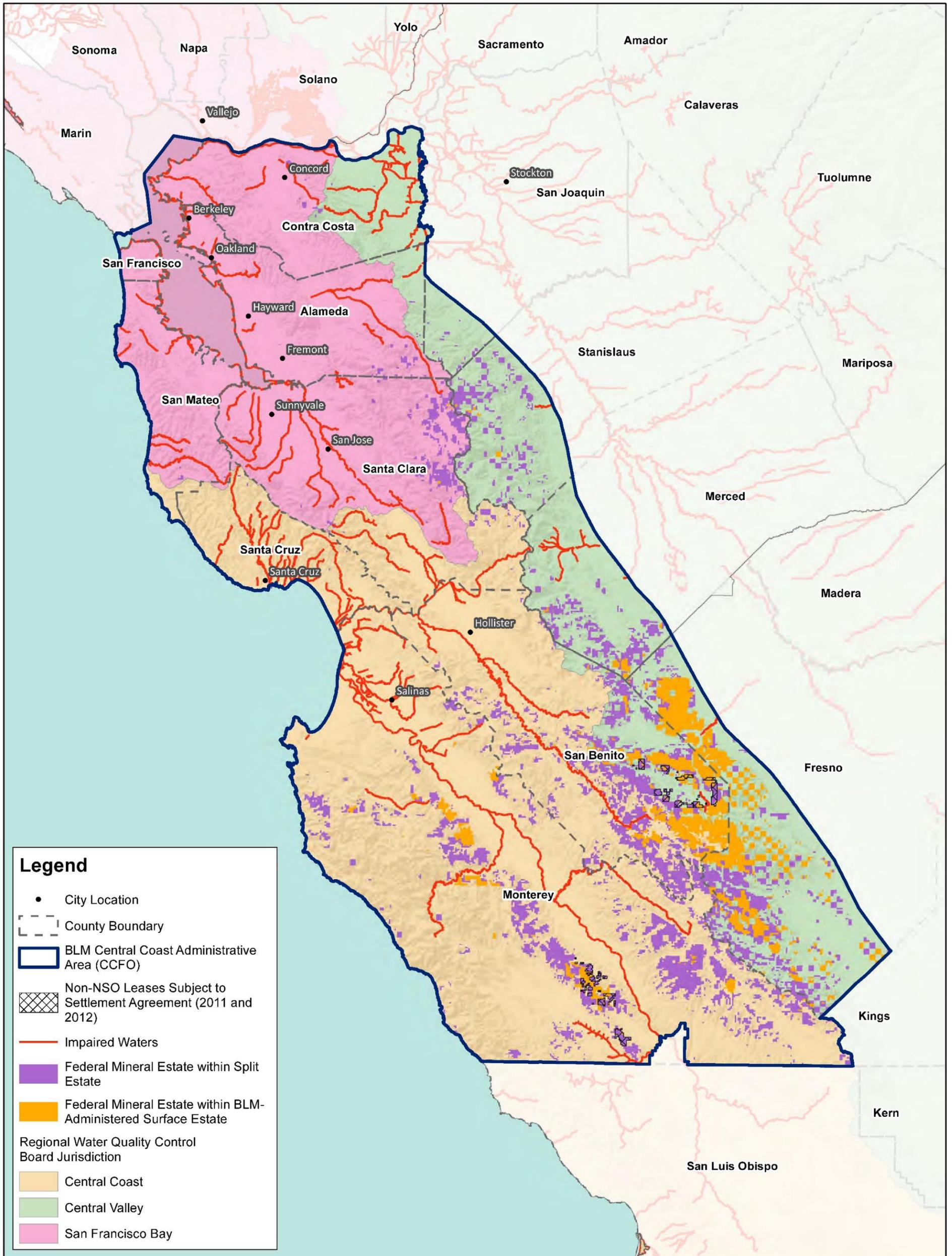
Source: BLM, 2015

Map Reference: UTM Zone 10 NAD83

Scale 1:1,000,000

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.8-3
Floodplains



Source: BLM, 2015

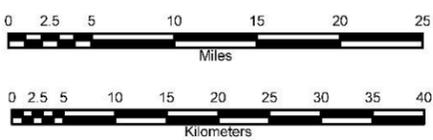
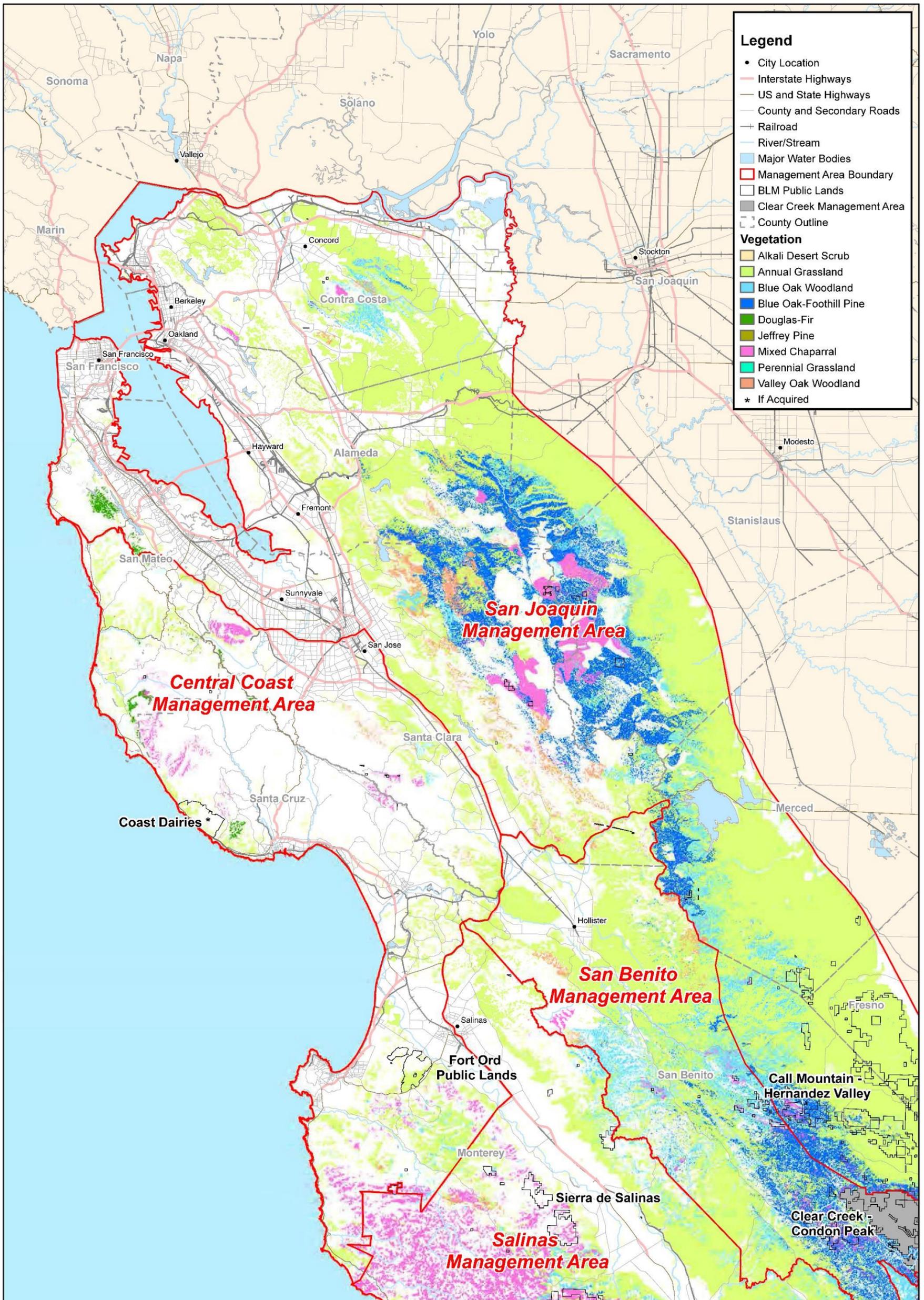
Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.8-4
Impaired Waters

Date: December 2016



Map Reference:
UTM Zone 10 NAD83
Scale 1:700,000

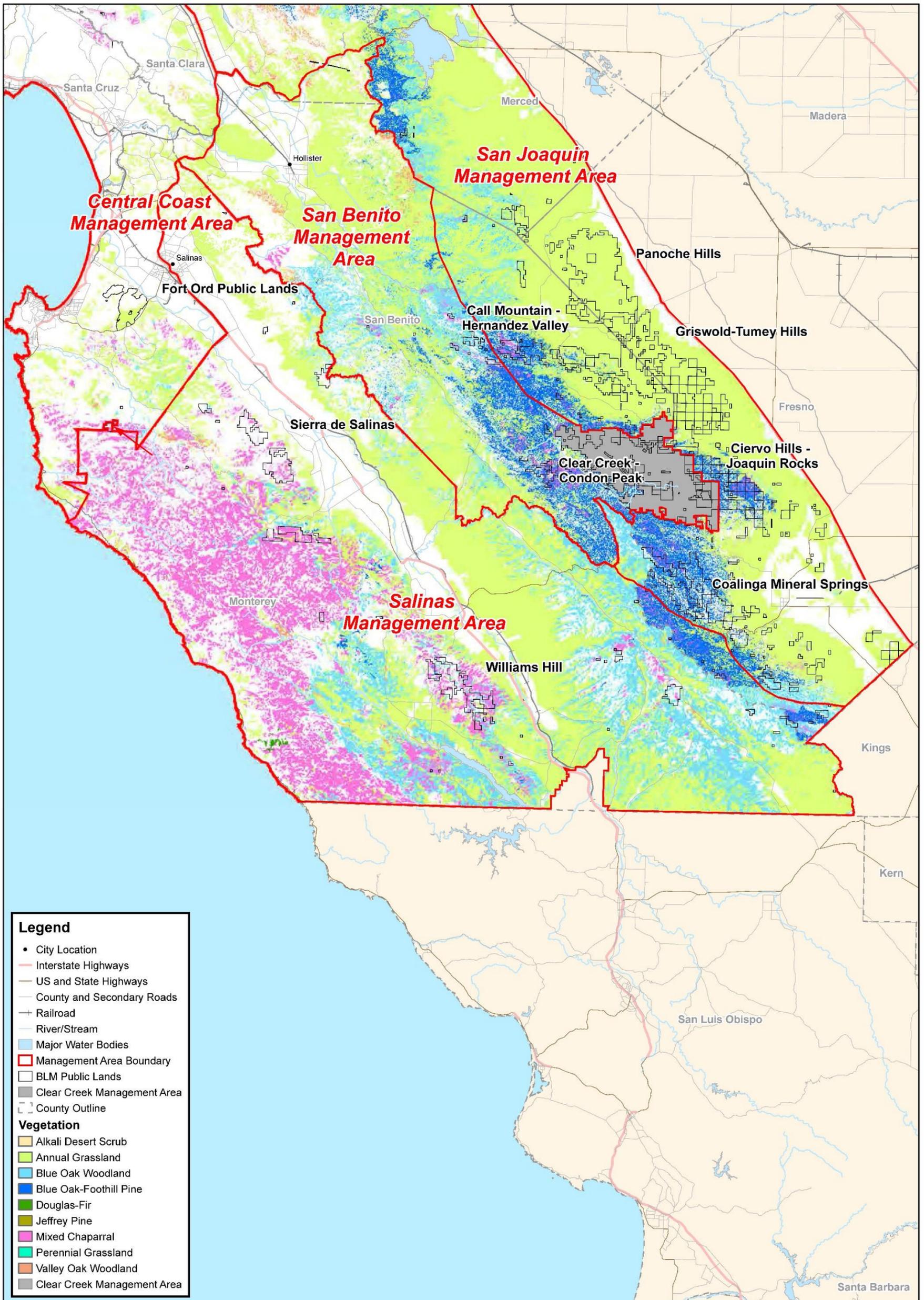


Adapted from BLM, 2005

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.10-1a
VEGETATION COMMUNITY
Northern Section

Date: December 2016



Legend

- City Location
- Interstate Highways
- US and State Highways
- County and Secondary Roads
- Railroad
- River/Stream
- Major Water Bodies
- Management Area Boundary
- BLM Public Lands
- Clear Creek Management Area
- County Outline

Vegetation

- Alkali Desert Scrub
- Annual Grassland
- Blue Oak Woodland
- Blue Oak-Foothill Pine
- Douglas-Fir
- Jeffrey Pine
- Mixed Chaparral
- Perennial Grassland
- Valley Oak Woodland
- Clear Creek Management Area

0 2.5 5 10 15 20 25
Miles

0 2.5 5 10 15 20 25 30 35 40
Kilometers

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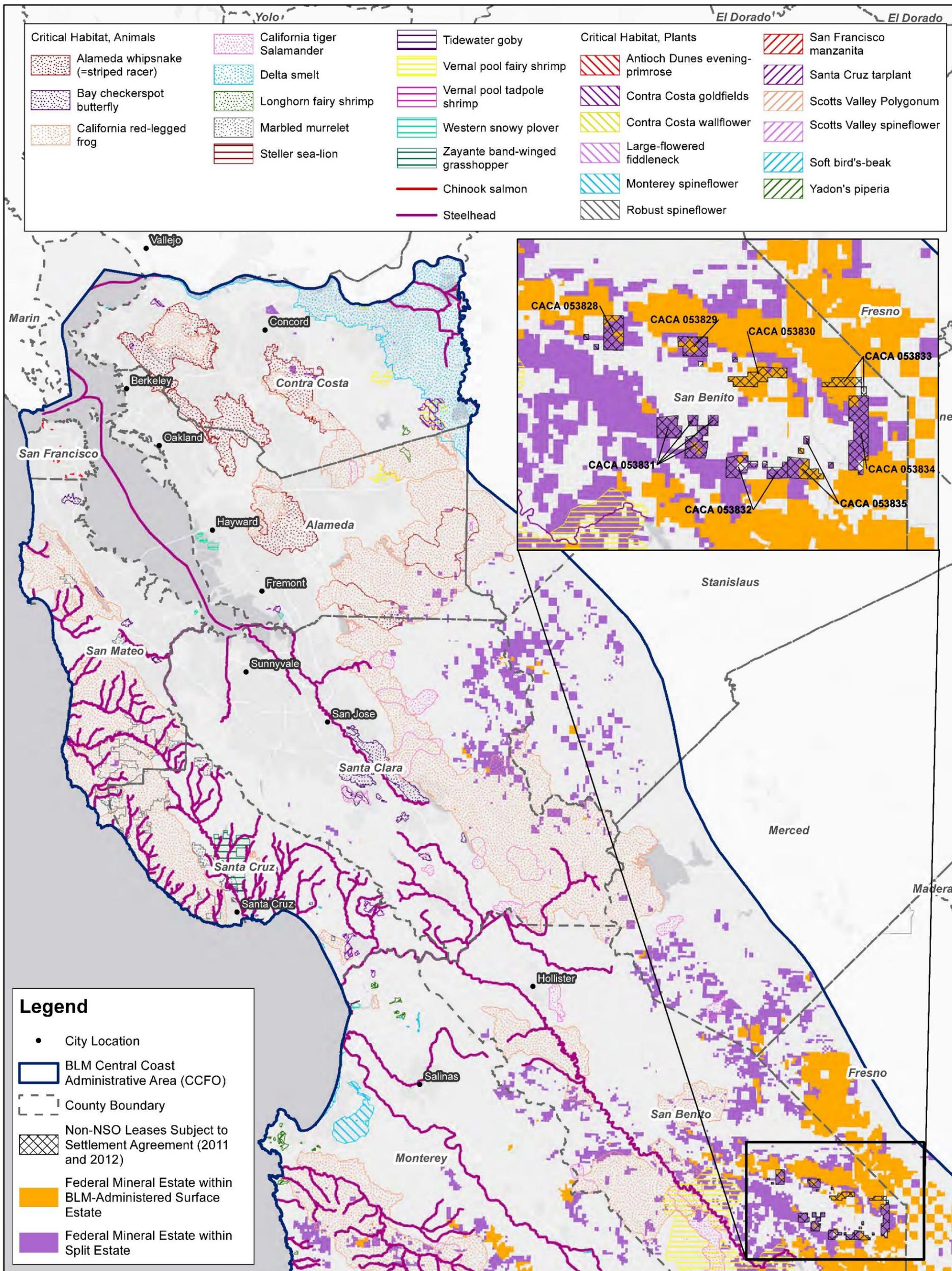
Map Reference:
UTM Zone 10 NAD83
Scale 1:700,000

Adapted from BLM, 2005

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.10-1b
VEGETATION COMMUNITY
Southern Section

Date: December 2016

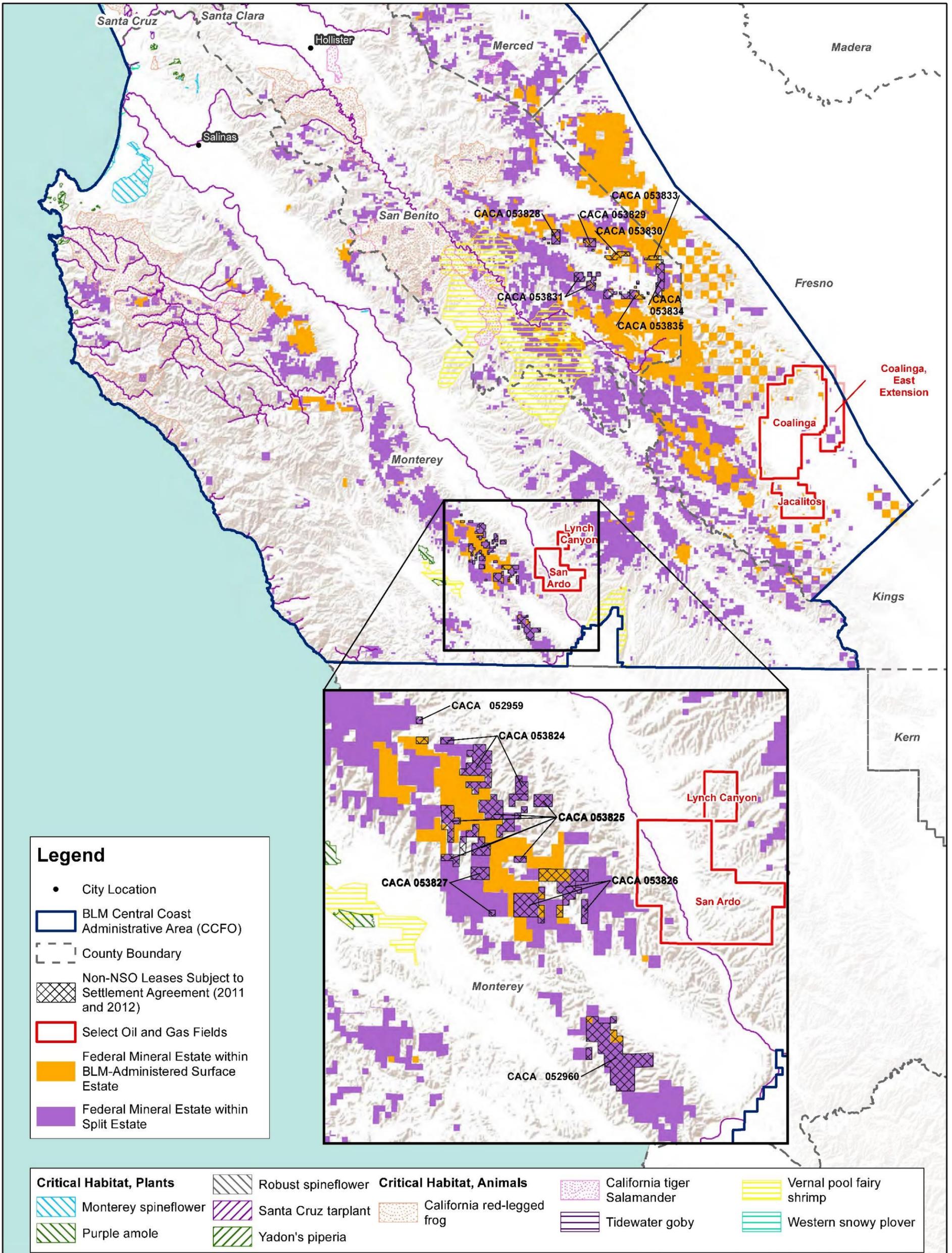


BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.12-1a

Designated Critical Habitat
Northern Section

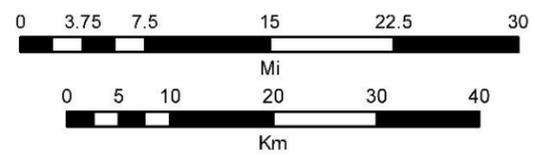
Date: December 2016



Legend

- City Location
- BLM Central Coast Administrative Area (CCFO)
- County Boundary
- Non-NSO Leases Subject to Settlement Agreement (2011 and 2012)
- Select Oil and Gas Fields
- Federal Mineral Estate within BLM-Administered Surface Estate
- Federal Mineral Estate within Split Estate

| | | | | |
|---------------------------------|---------------------|----------------------------------|-----------------------------|--------------------------|
| Critical Habitat, Plants | Robust spineflower | Critical Habitat, Animals | California tiger Salamander | Vernal pool fairy shrimp |
| Monterey spineflower | Santa Cruz tarplant | California red-legged frog | Tidewater goby | Western snowy plover |
| Purple amole | Yadon's piperia | | | |



BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Figure 3.12-1b
Designated Critical Habitat
Southern Section



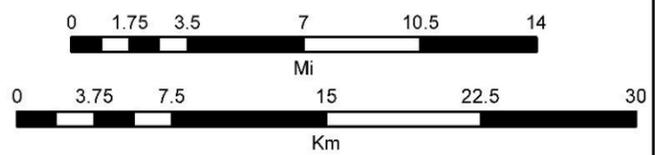
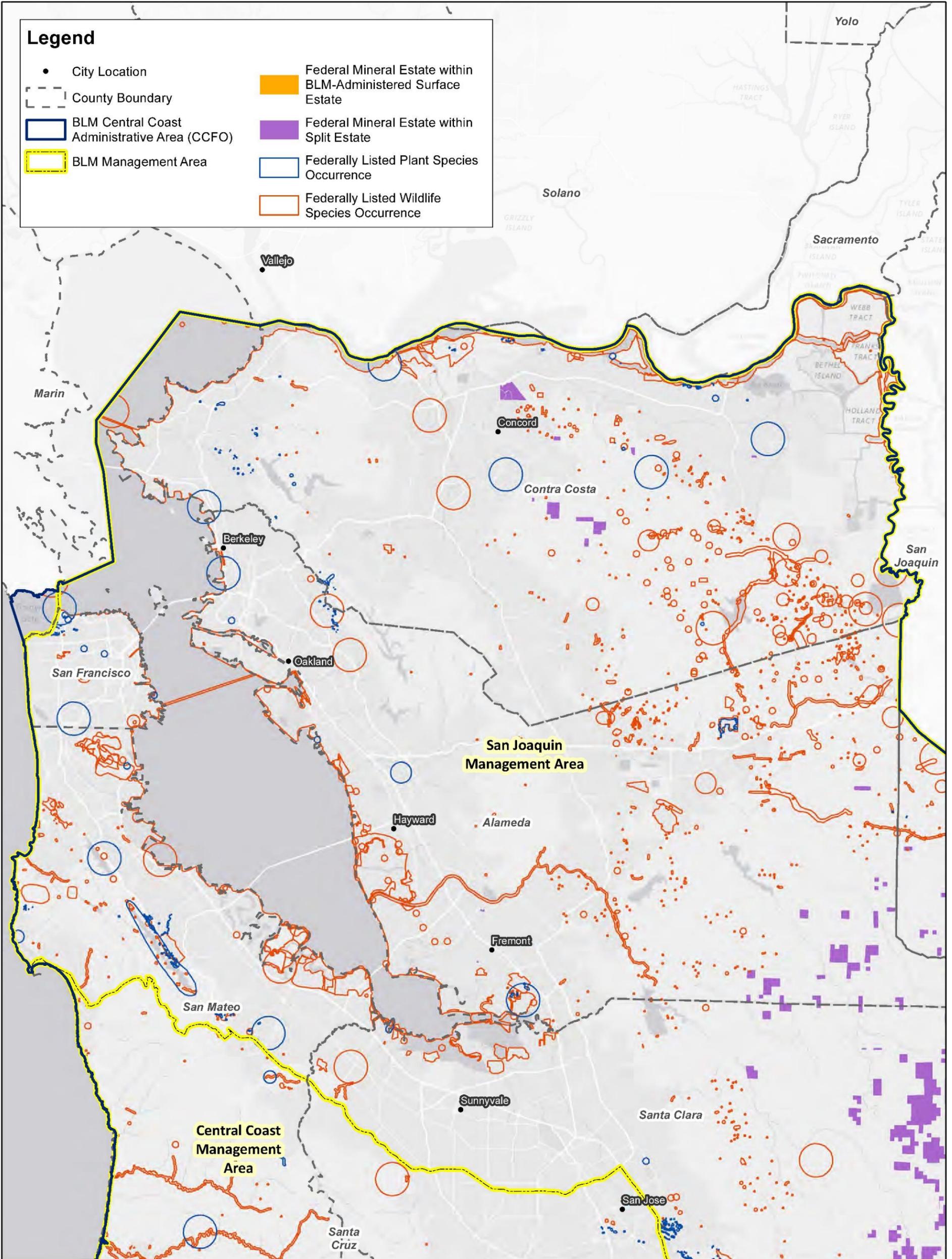
Map Reference:
UTM Zone 10 NAD83
Scale 1:700,000



Date: December 2016

Legend

- City Location
- County Boundary
- ▭ BLM Central Coast Administrative Area (CCFO)
- ▭ BLM Management Area
- ▭ Federal Mineral Estate within BLM-Administered Surface Estate
- ▭ Federal Mineral Estate within Split Estate
- ▭ Federally Listed Plant Species Occurrence
- ▭ Federally Listed Wildlife Species Occurrence




Map Reference:
UTM Zone 10 NAD83
Scale 1:350,000

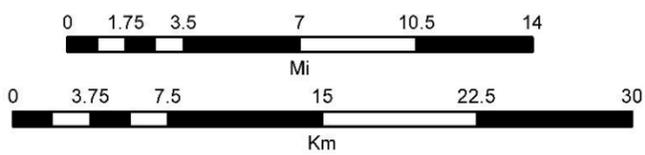
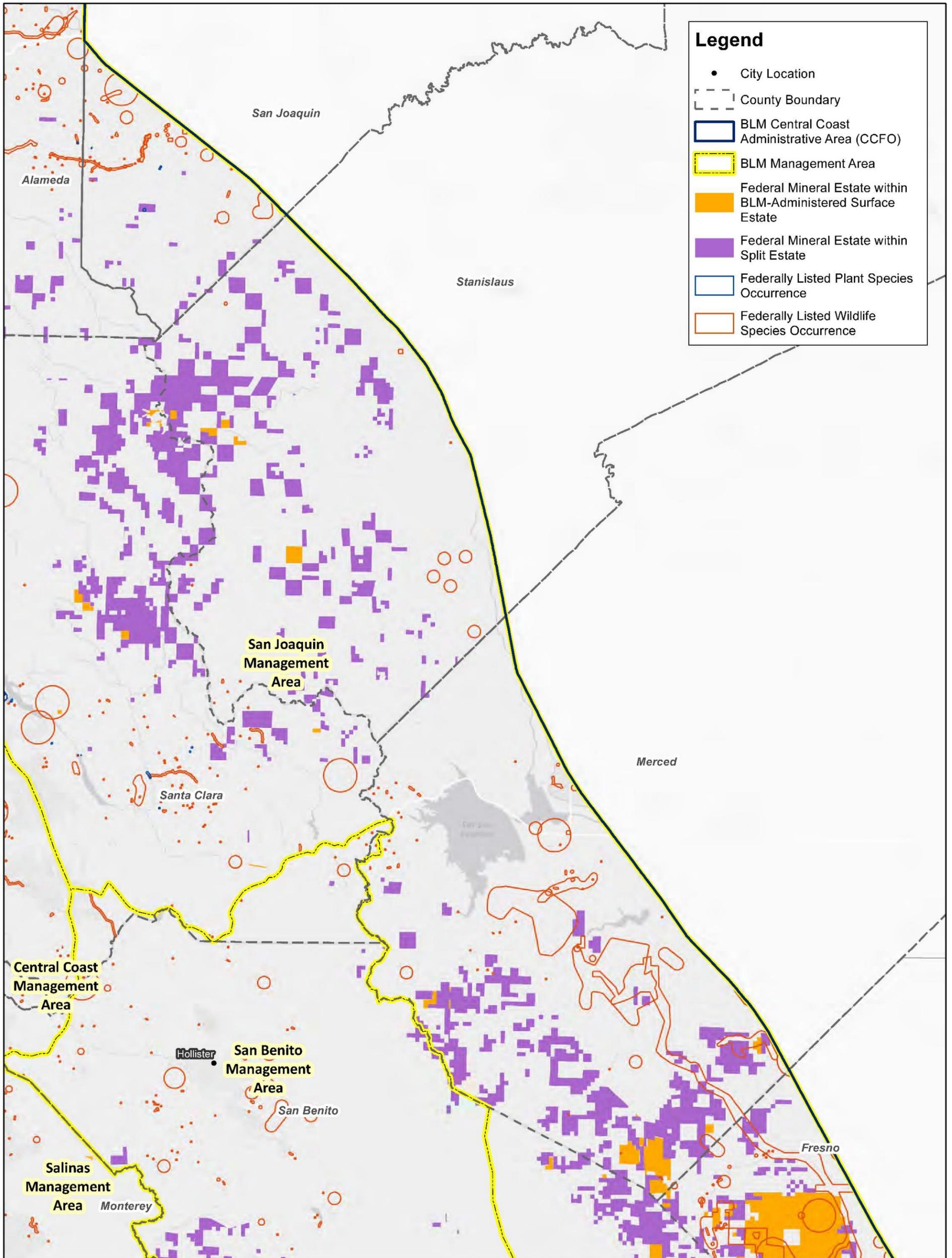


BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Please refer to Table 3.12-2 for list of species found in each Management Area.

Figure 3.12-2a
Federally Listed Species Occurrences
Page 1

Date: December 2016



Map Reference:
UTM Zone 10 NAD83
Scale 1:350,000

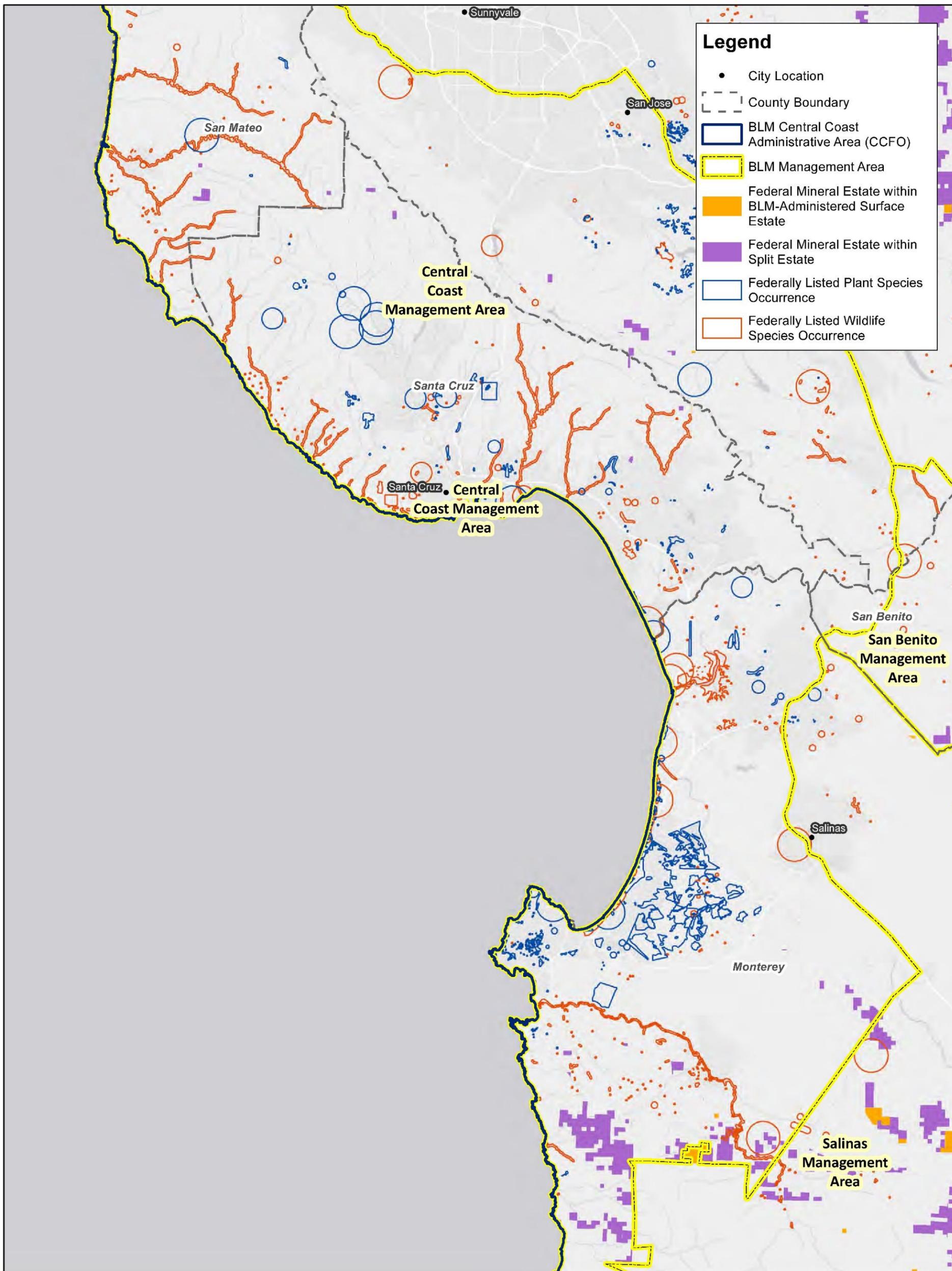


BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Please refer to Table 3.12-2 for list of species found in each Management Area.

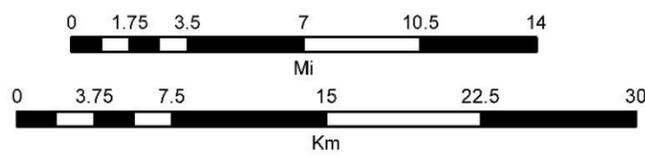
Figure 3.12-2b
Federally Listed
Species Occurrences
Page 2

Date: December 2016



Legend

- City Location
- - - County Boundary
- ▭ BLM Central Coast Administrative Area (CCFO)
- ▭ BLM Management Area
- ▭ Federal Mineral Estate within BLM-Administered Surface Estate
- ▭ Federal Mineral Estate within Split Estate
- Federally Listed Plant Species Occurrence
- Federally Listed Wildlife Species Occurrence



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Map Reference:
UTM Zone 10 NAD83

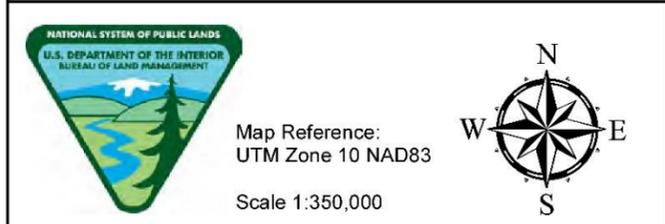
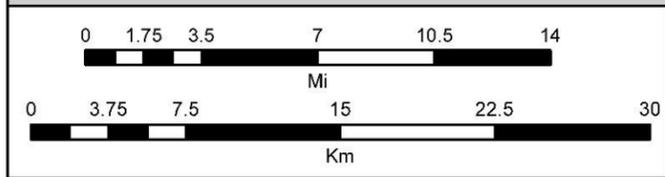
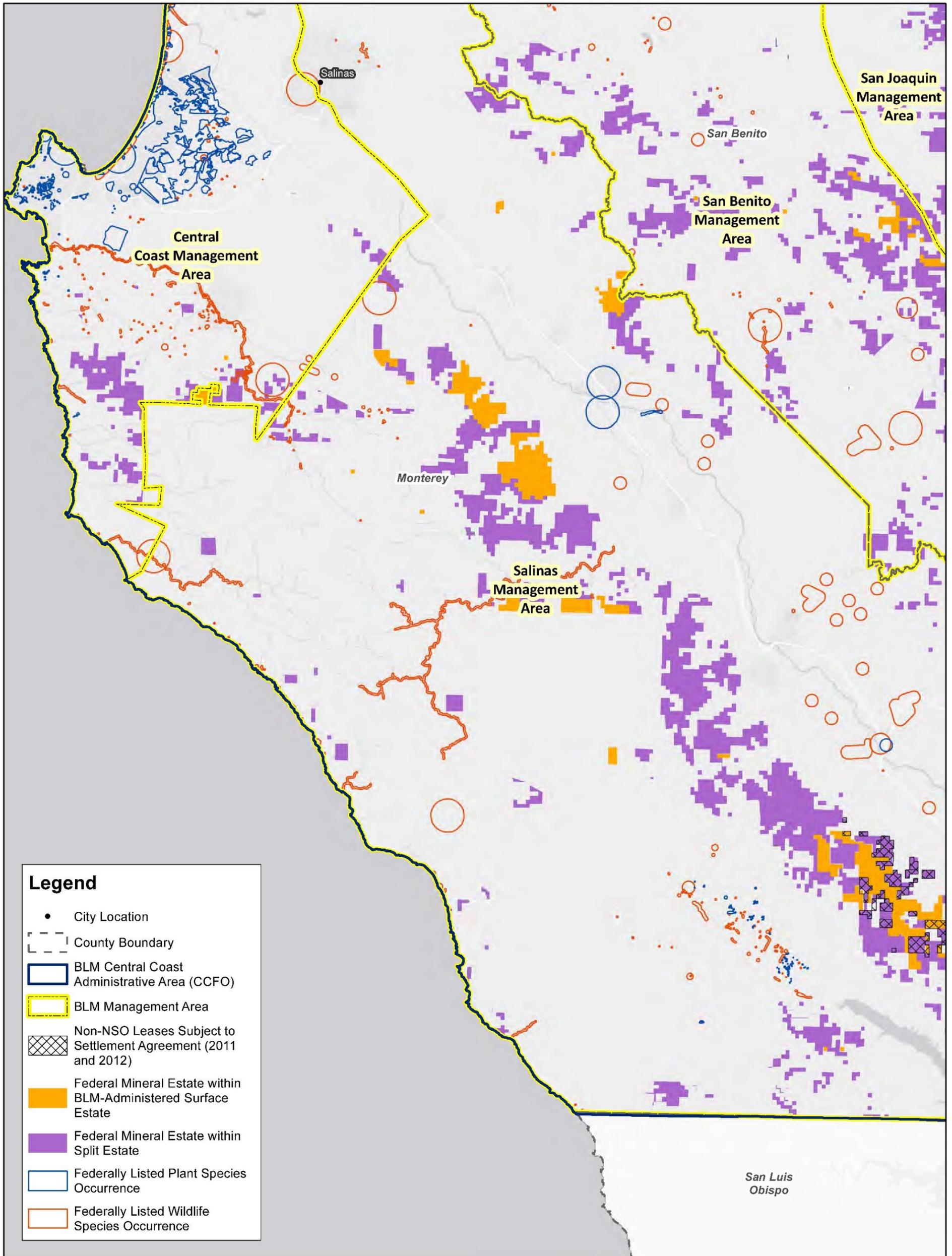
Scale 1:350,000

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Please refer to Table 3.12-2 for list of species found in each Management Area.

Figure 3.12-2c
Federally Listed Species Occurrences
Page 3

Date: December 2016

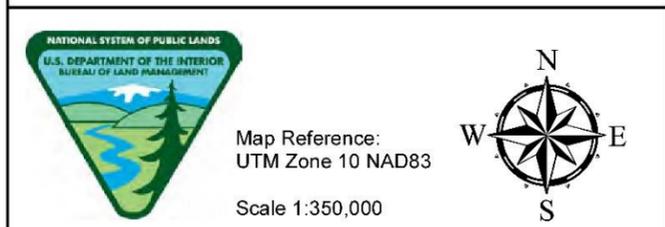
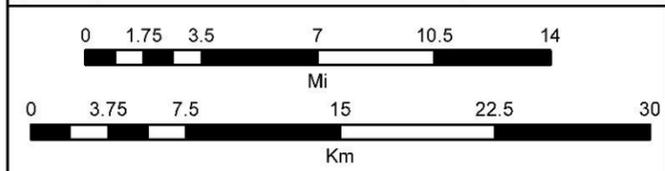
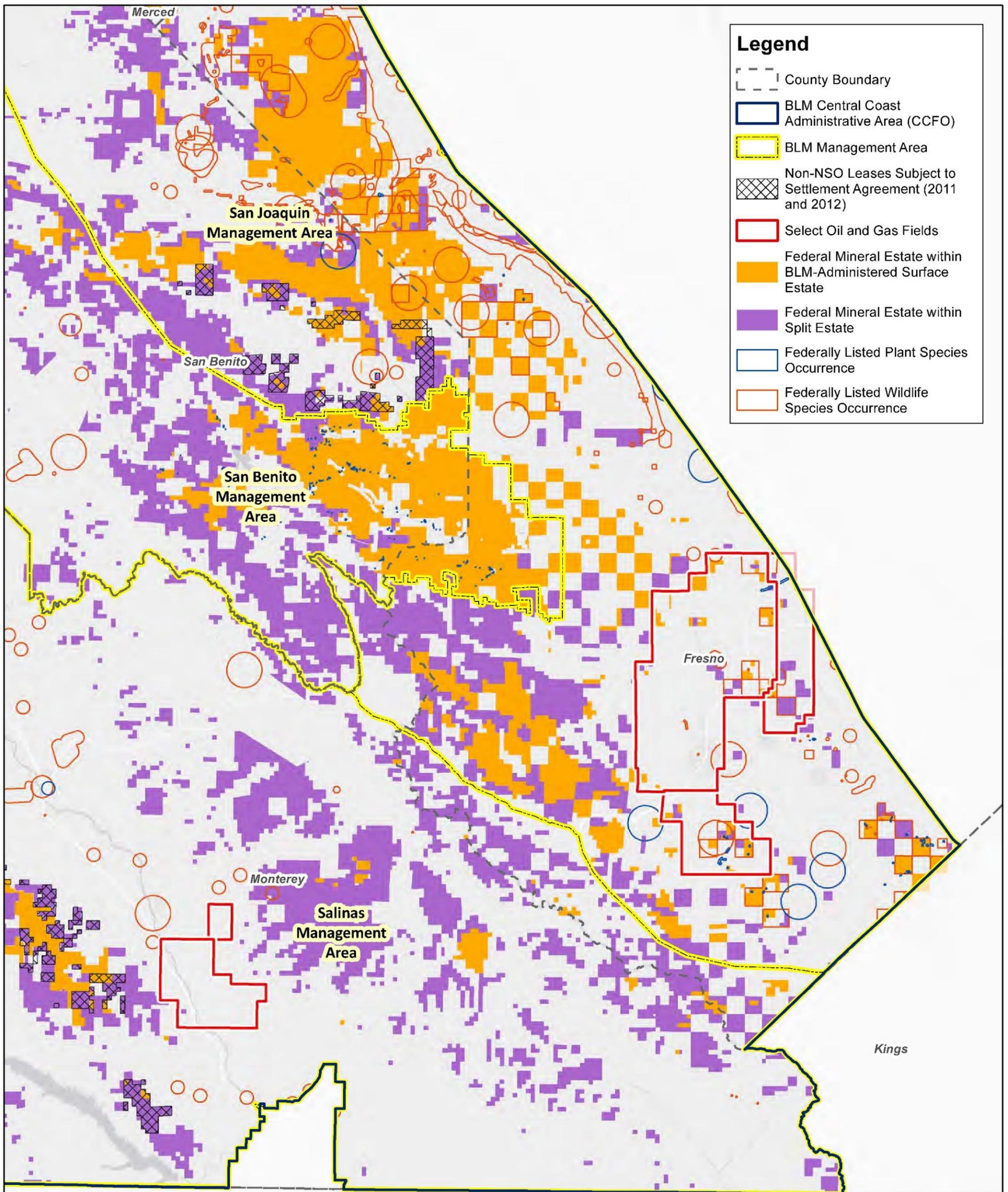


BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Please refer to Table 3.12-2 for list of species found in each Management Area.

Figure 3.12-2d
Federally Listed Species Occurrences
Page 4

Date: December 2016



BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

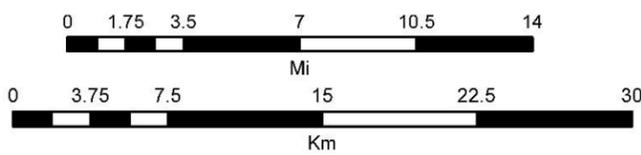
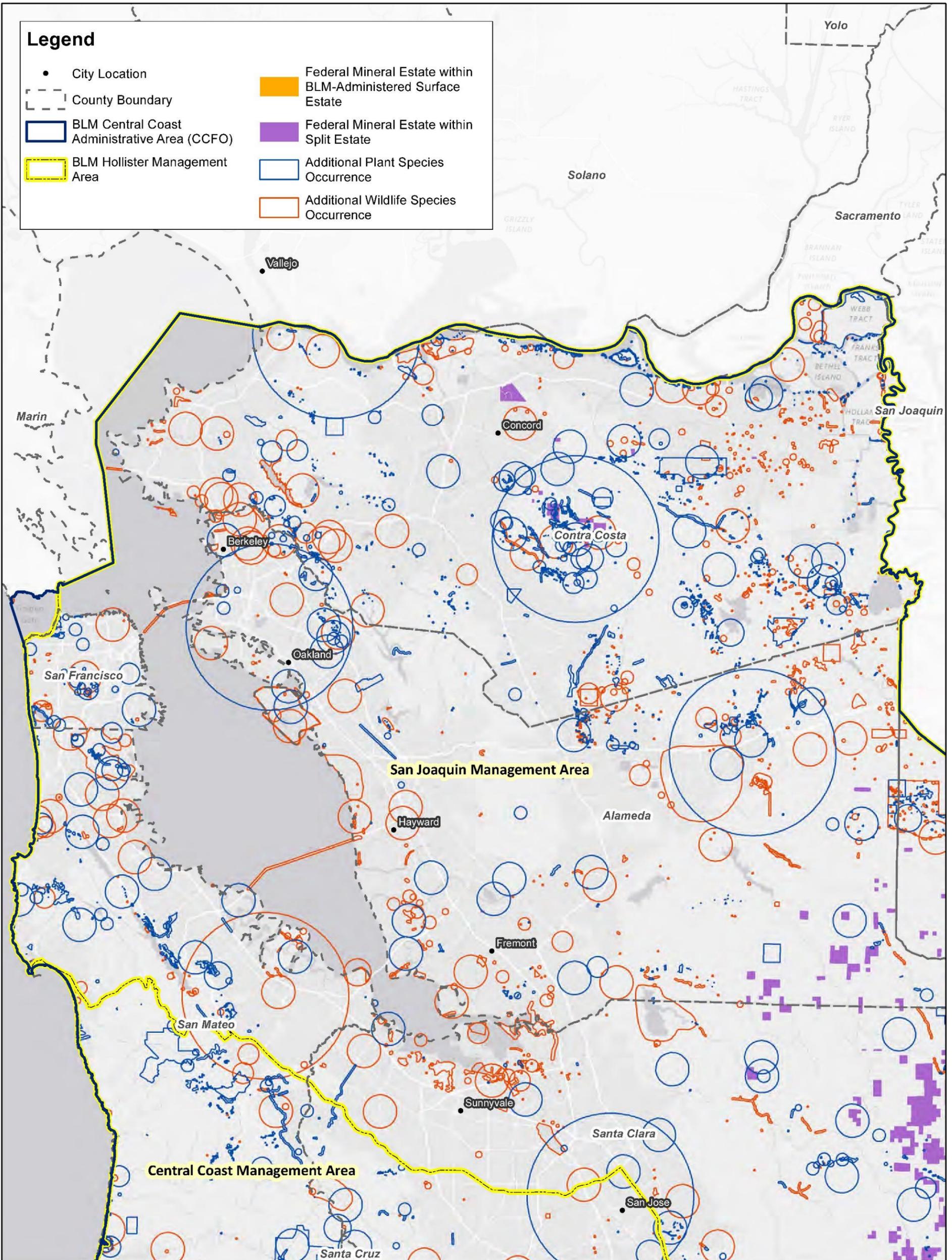
Please refer to Table 3.12-2 for list of species found in each Management Area.

Figure 3.12-2e
Federally Listed Species Occurrences
Page 5

Date: December 2016

Legend

- City Location
- County Boundary
- ▭ BLM Central Coast Administrative Area (CCFO)
- ▭ BLM Hollister Management Area
- ▭ Federal Mineral Estate within BLM-Administered Surface Estate
- ▭ Federal Mineral Estate within Split Estate
- ▭ Additional Plant Species Occurrence
- ▭ Additional Wildlife Species Occurrence



Map Reference:
UTM Zone 10 NAD83
Scale 1:350,000

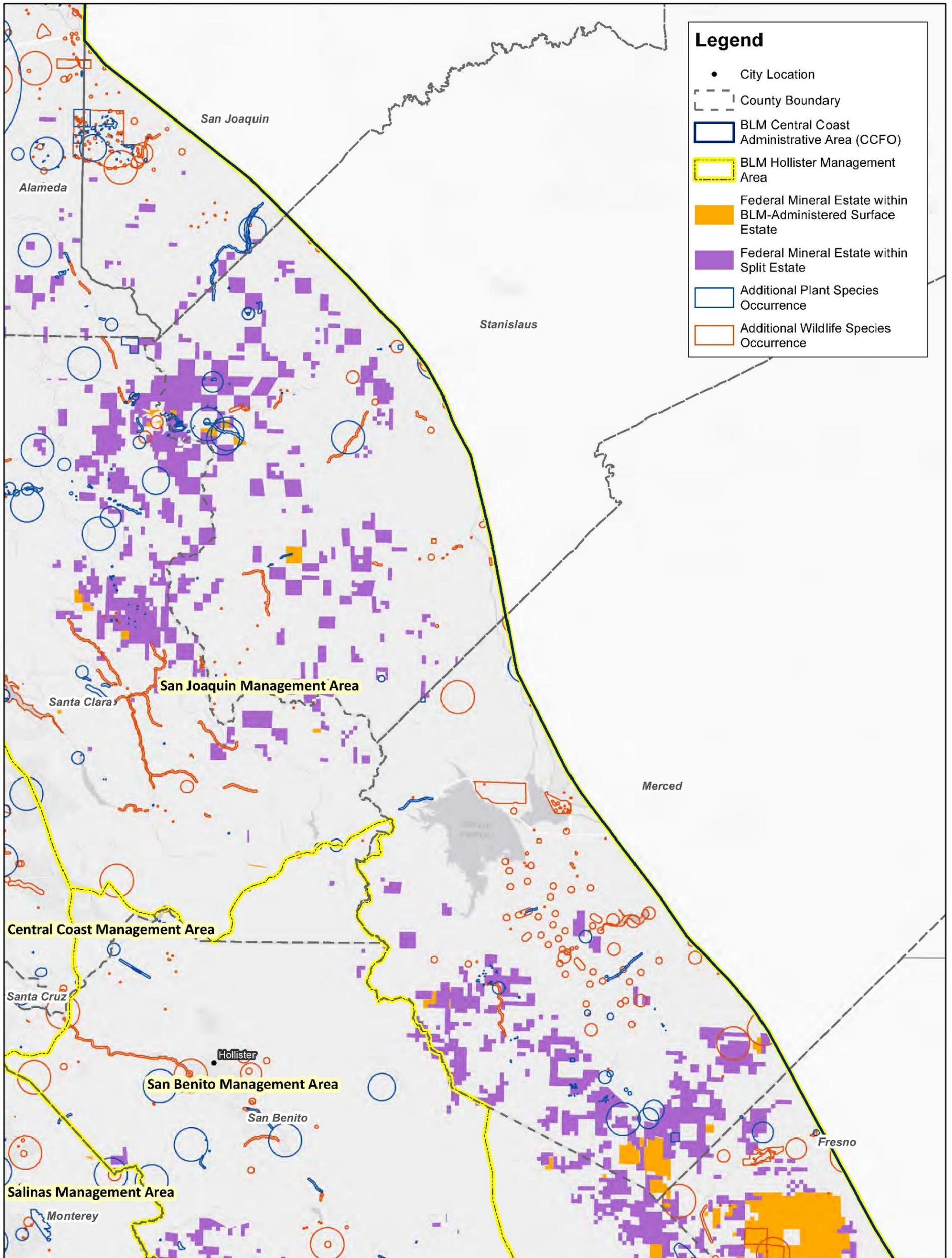


BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Please refer to Table X for list of species found in each Management Area.

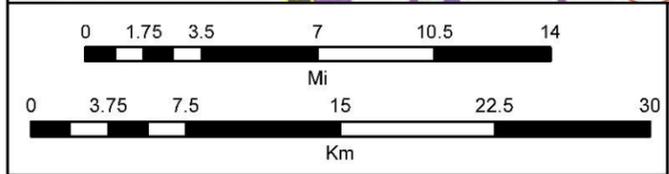
Figure 3.12-3a
Additional Special Status Species Occurrences
Page 1

Date: December 2016



Legend

- City Location
- - - County Boundary
- ▭ BLM Central Coast Administrative Area (CCFO)
- ▭ BLM Hollister Management Area
- ▭ Federal Mineral Estate within BLM-Administered Surface Estate
- ▭ Federal Mineral Estate within Split Estate
- Additional Plant Species Occurrence
- Additional Wildlife Species Occurrence



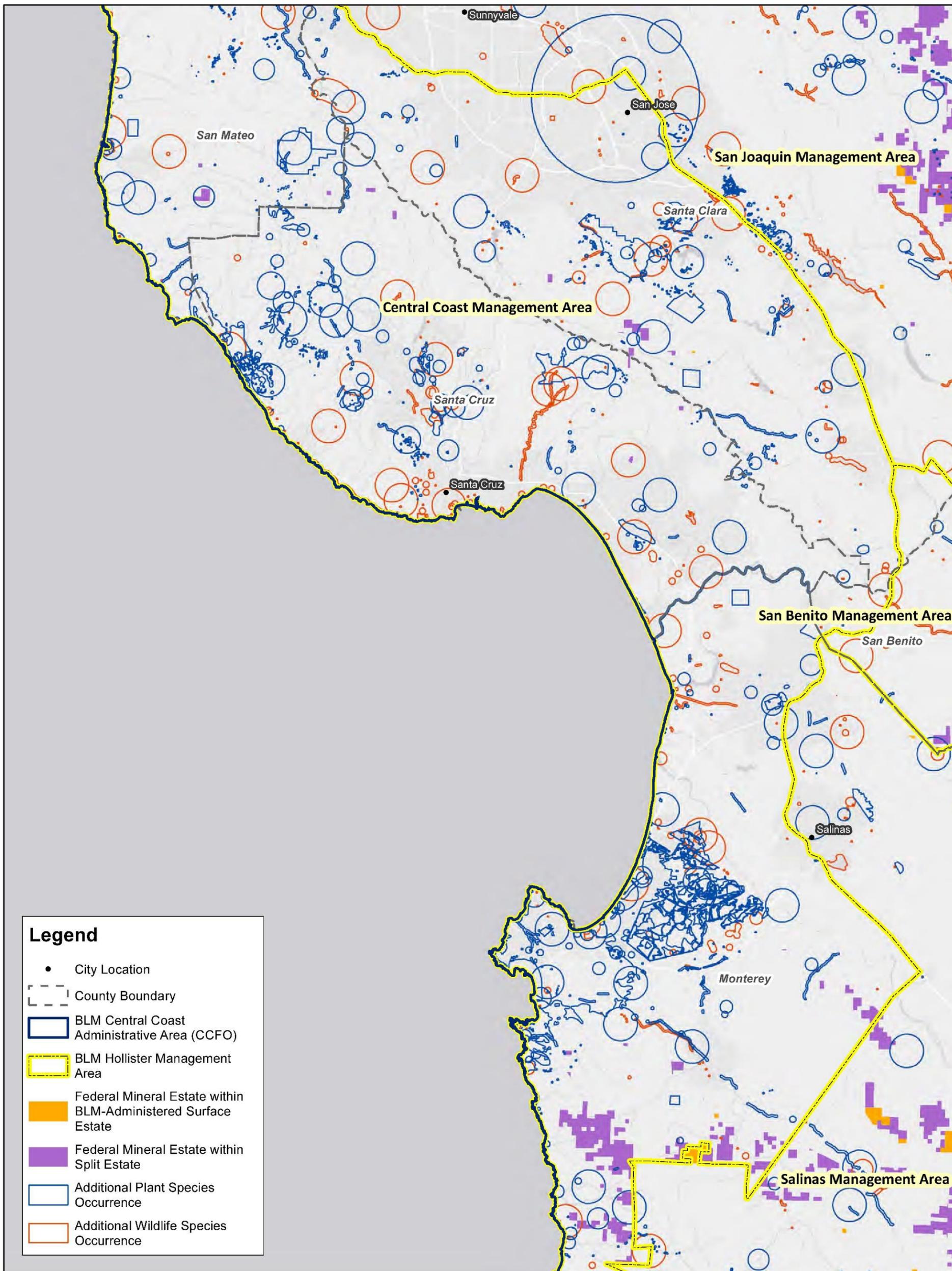
Map Reference:
UTM Zone 10 NAD83
Scale 1:350,000

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Please refer to Table X for list of species found in each Management Area.

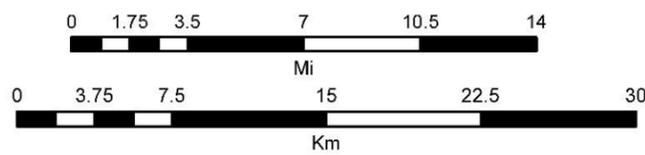
Figure 3.12-3b
Additional Special Status Species Occurrences
Page 2

Date: December 2016



Legend

- City Location
- - - County Boundary
- ▭ BLM Central Coast Administrative Area (CCFO)
- ▭ BLM Hollister Management Area
- ▭ Federal Mineral Estate within BLM-Administered Surface Estate
- ▭ Federal Mineral Estate within Split Estate
- Additional Plant Species Occurrence
- Additional Wildlife Species Occurrence



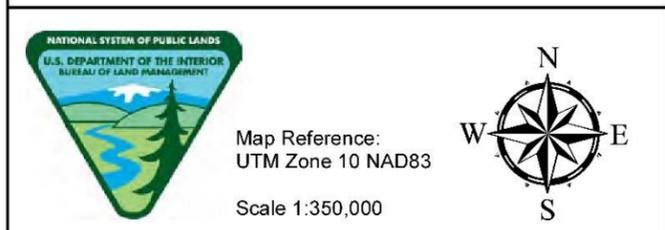
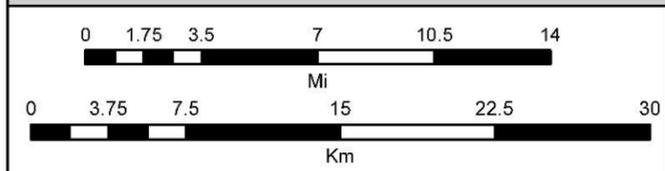
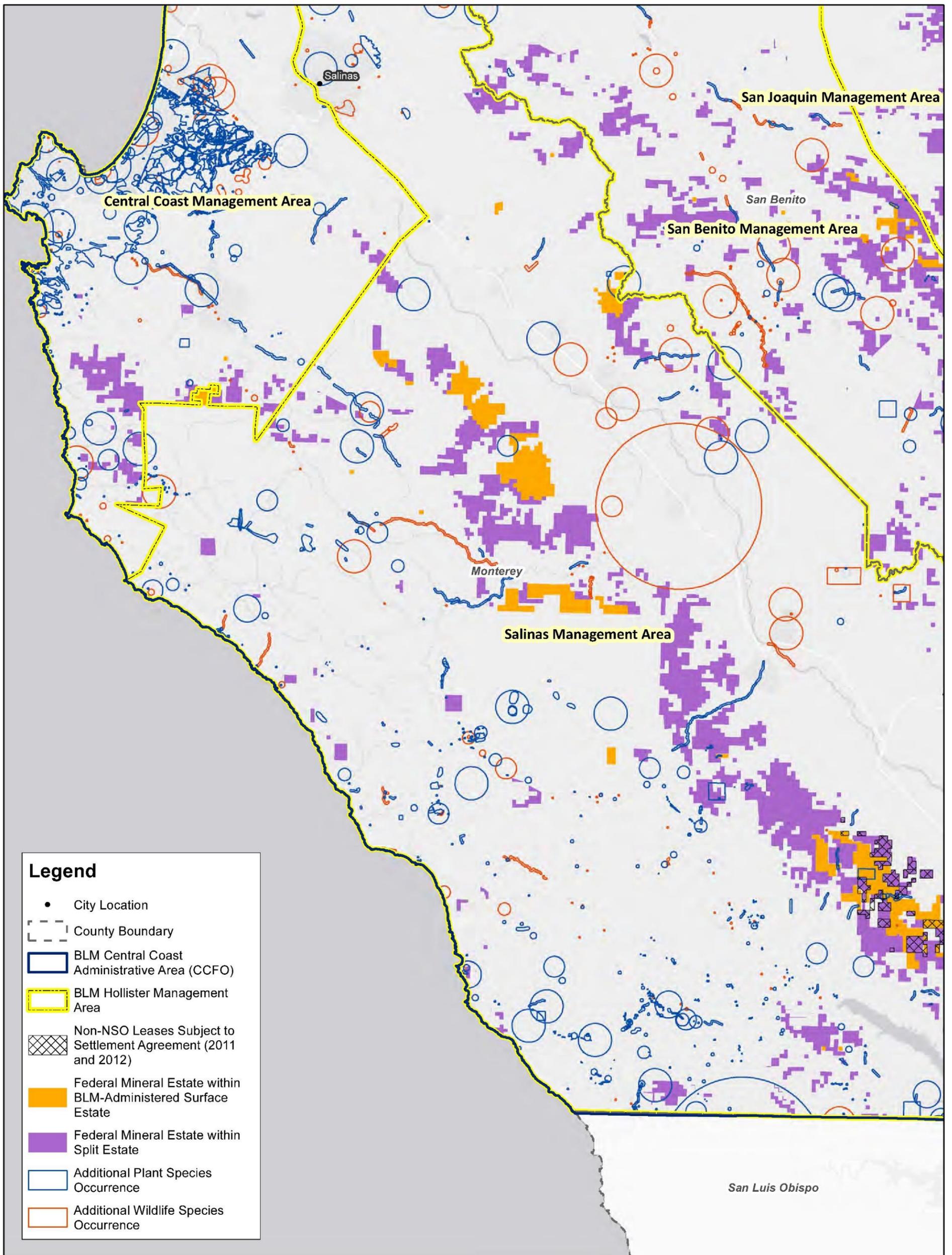
Map Reference:
UTM Zone 10 NAD83
Scale 1:350,000

BUREAU OF LAND MANAGEMENT
CENTRAL COAST FIELD OFFICE

Please refer to Table X for list of species found in each Management Area.

Figure 3.12-3c
Additional Special Status Species Occurrences
Page 3

Date: December 2016

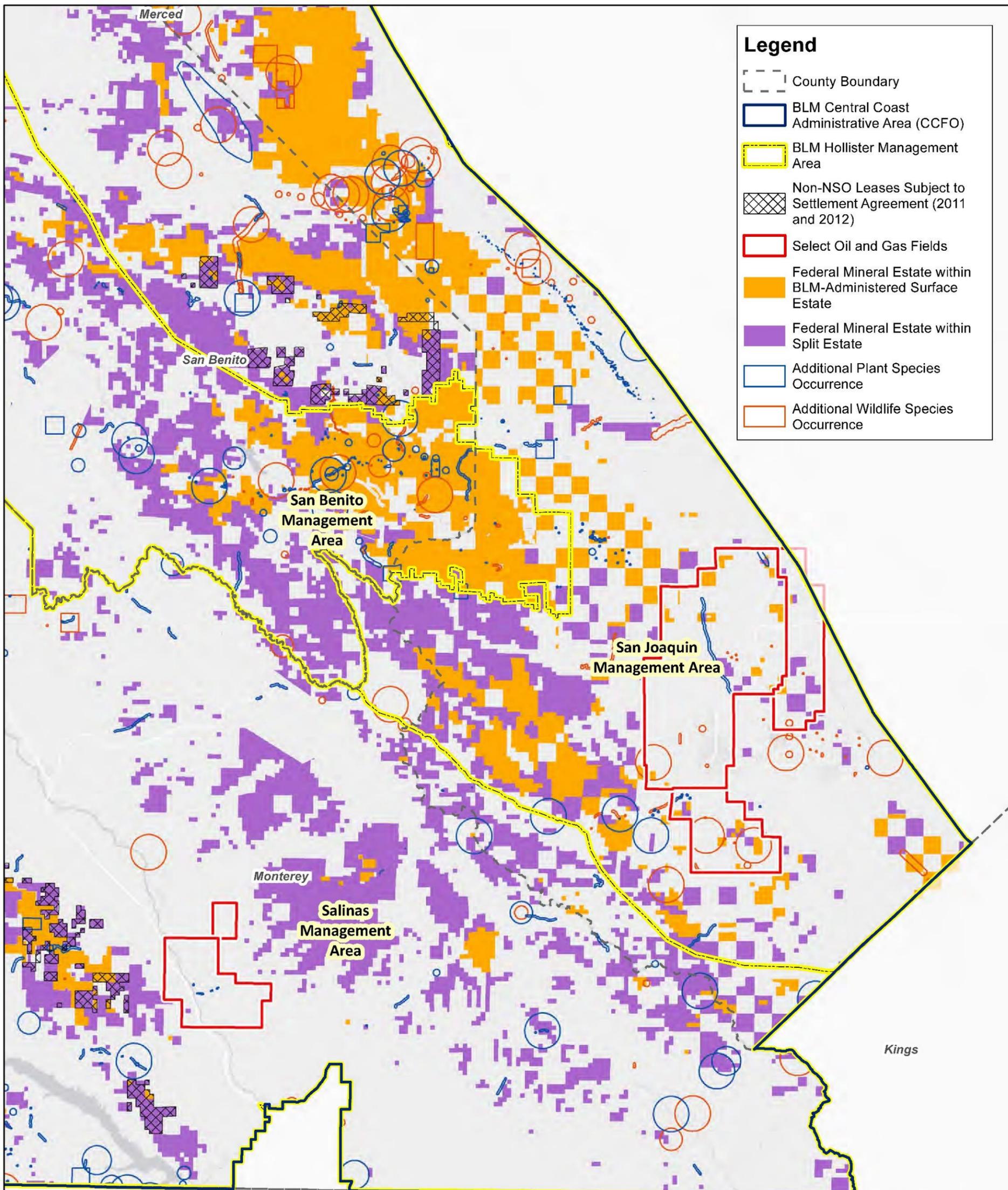


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Please refer to Table X for list of species found in each Management Area.

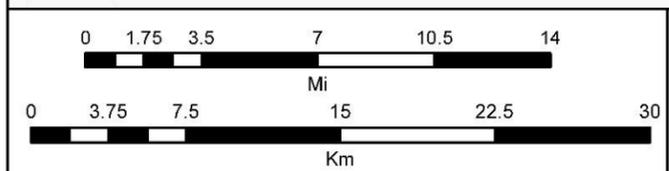
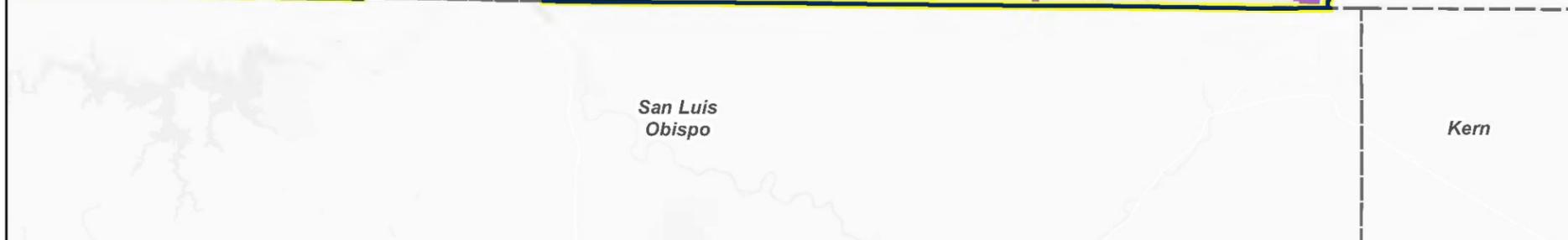
Figure 3.12-3d
Additional Special Status Species Occurrences
Page 4

Date: December 2016



Legend

-  County Boundary
-  BLM Central Coast Administrative Area (CCFO)
-  BLM Hollister Management Area
-  Non-NSO Leases Subject to Settlement Agreement (2011 and 2012)
-  Select Oil and Gas Fields
-  Federal Mineral Estate within BLM-Administered Surface Estate
-  Federal Mineral Estate within Split Estate
-  Additional Plant Species Occurrence
-  Additional Wildlife Species Occurrence




Map Reference:
UTM Zone 10 NAD83



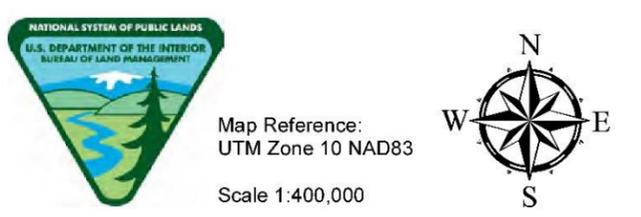
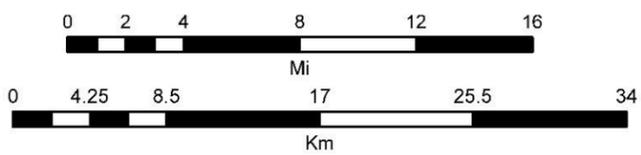
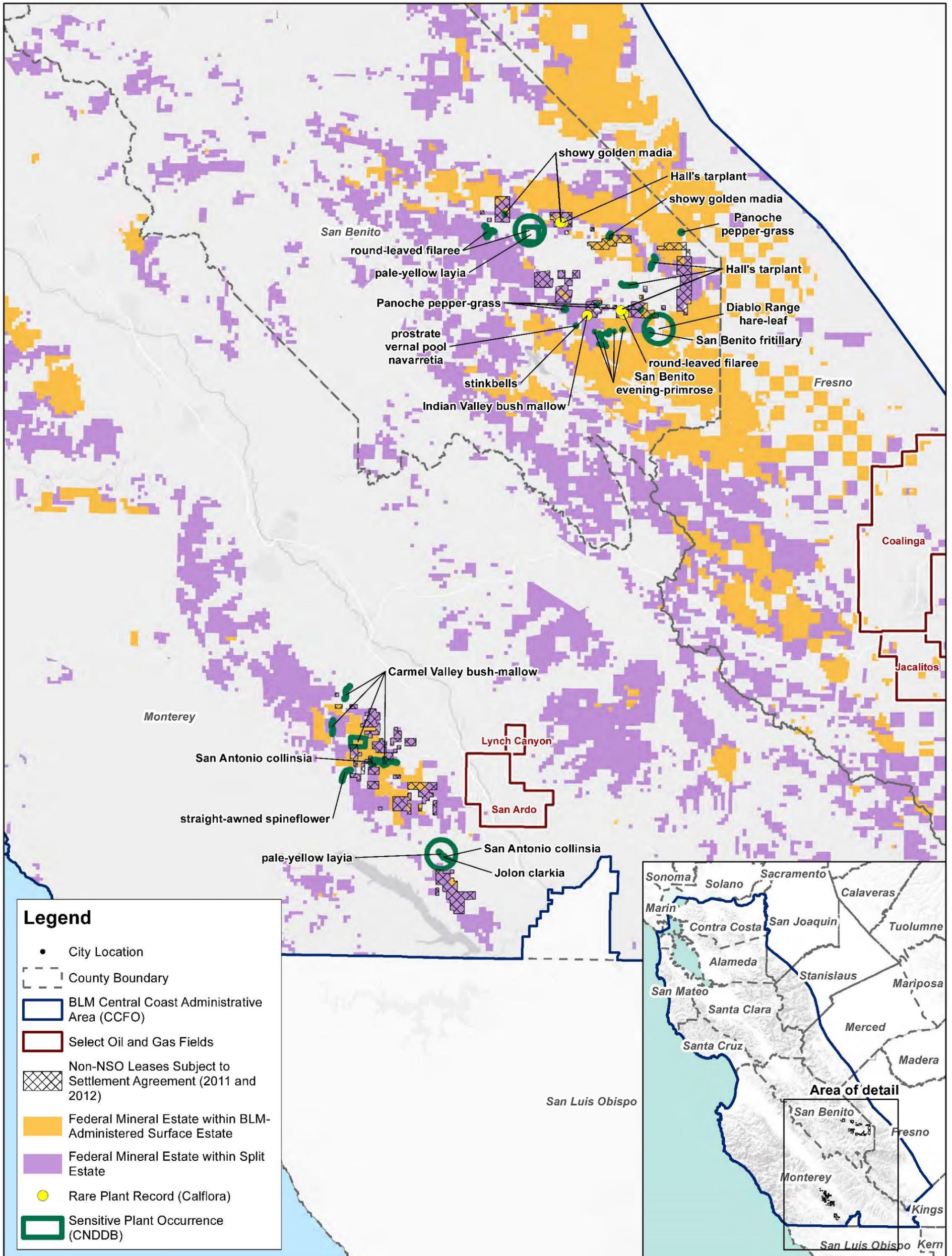
Scale 1:350,000

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Please refer to Table X for list of species found in each Management Area.

Figure 3.12-3e
Additional Special Status Species Occurrences
Page 5

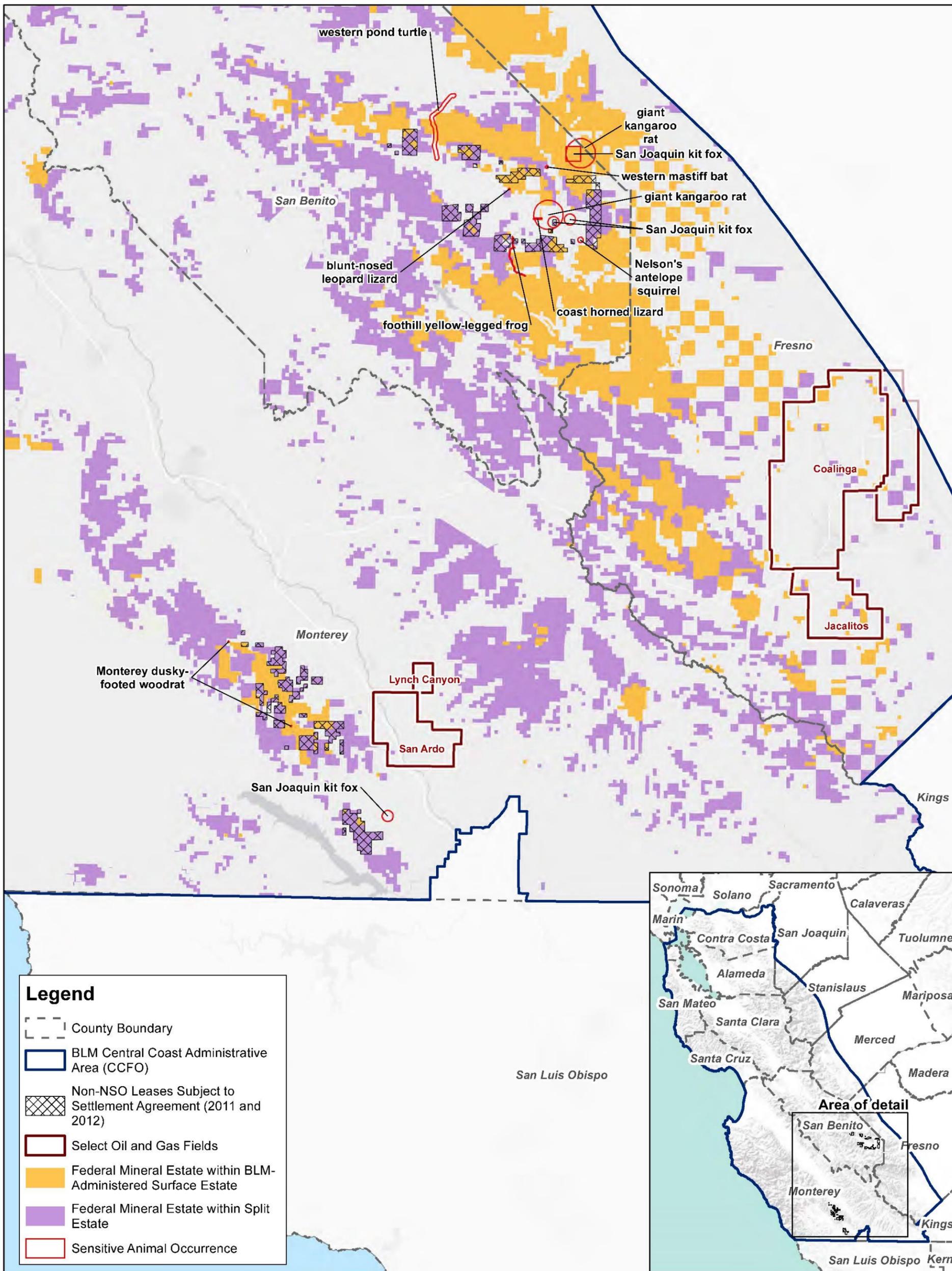
Date: December 2016



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Figure 3.12-4
Special Status Plant Occurrences
within One-Mile of Leases
Subject to Litigation

Date: December 2016



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CENTRAL COAST FIELD OFFICE

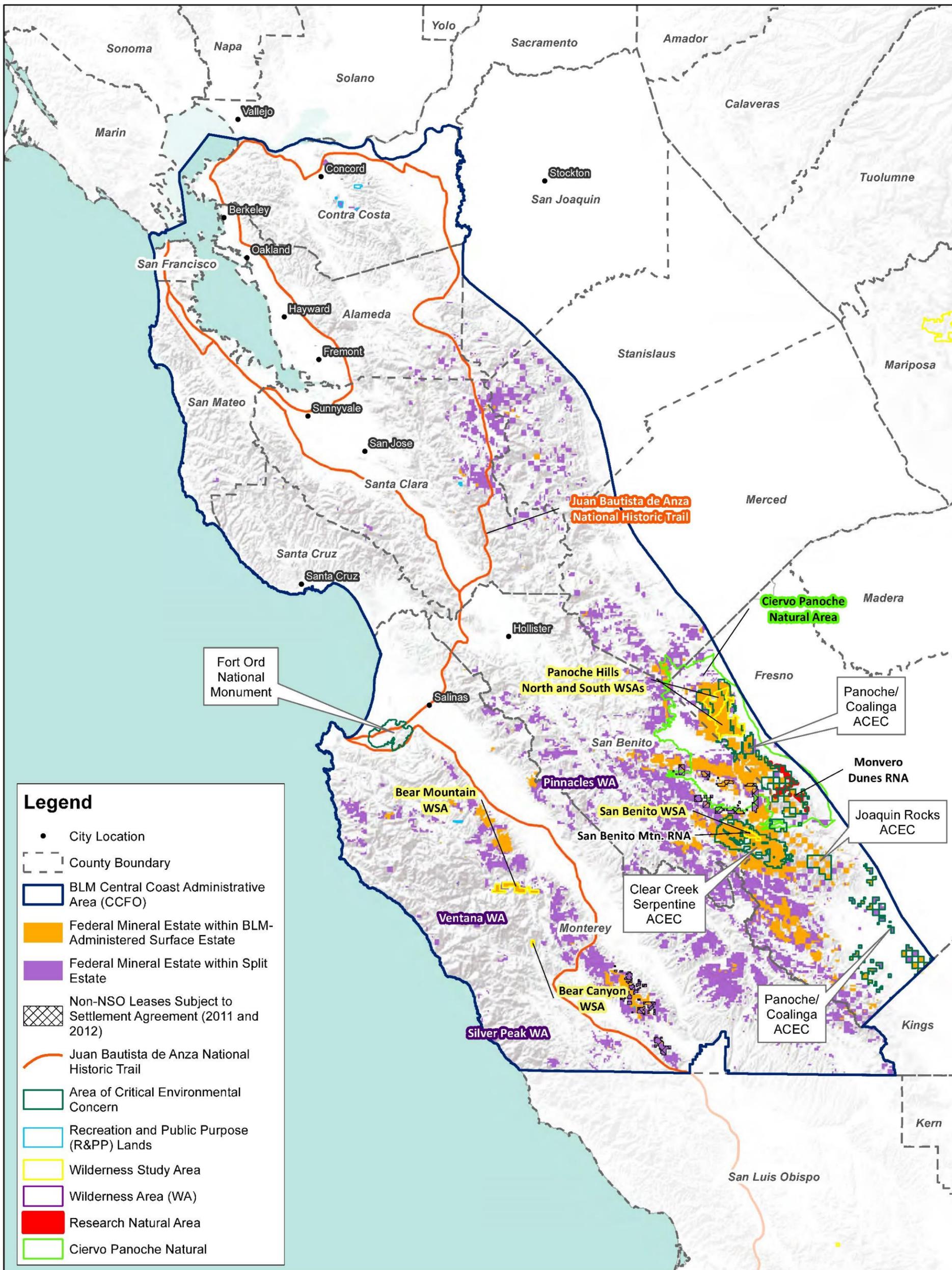
Figure 3.12-5
Special Status Wildlife Occurrences
within One-Mile of Leases
Subject to Litigation

Date: December 2016



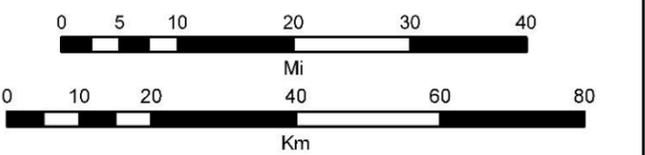
Map Reference:
UTM Zone 10 NAD83
Scale 1:400,000





Legend

- City Location
- - - County Boundary
- ▭ BLM Central Coast Administrative Area (CCFO)
- ▭ Federal Mineral Estate within BLM-Administered Surface Estate
- ▭ Federal Mineral Estate within Split Estate
- ▭ Non-NSO Leases Subject to Settlement Agreement (2011 and 2012)
- Juan Bautista de Anza National Historic Trail
- ▭ Area of Critical Environmental Concern
- ▭ Recreation and Public Purpose (R&PP) Lands
- ▭ Wilderness Study Area
- ▭ Wilderness Area (WA)
- ▭ Research Natural Area
- ▭ Ciervo Panoche Natural

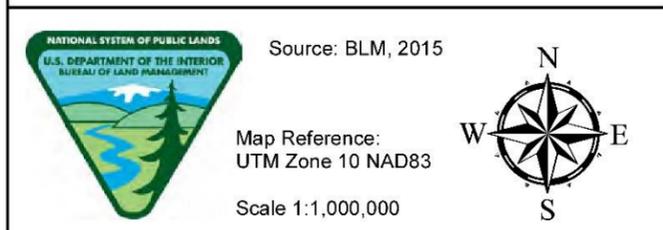
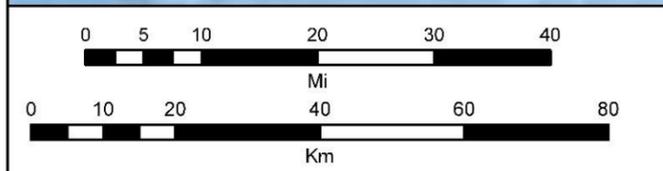
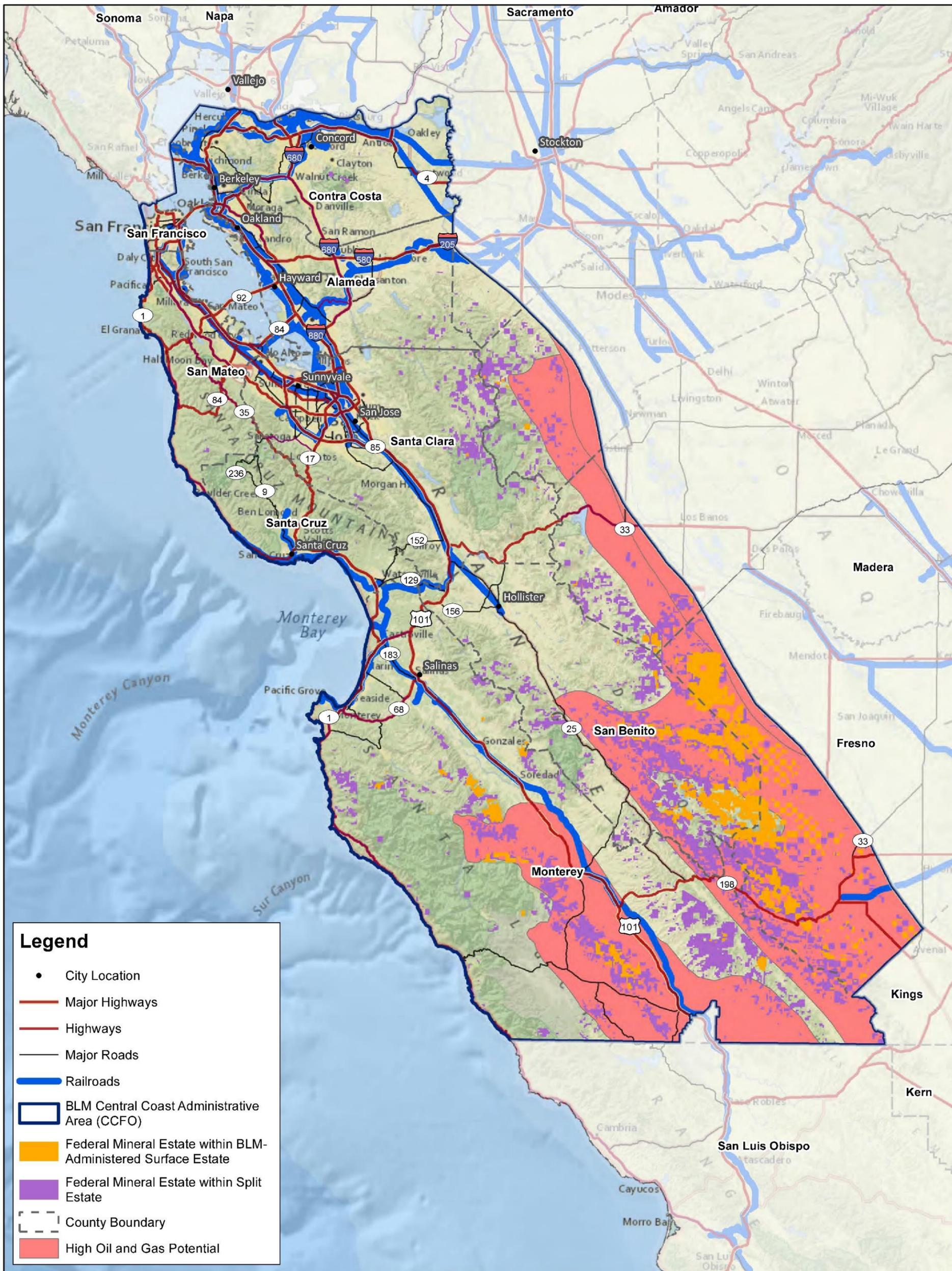


Map Reference:
UTM Zone 10 NAD83
Scale 1:1,000,000

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CENTRAL COAST FIELD OFFICE

Figure 3.14-1
Special Management Areas
within the
BLM Central Coast Field Office
Administrative Area

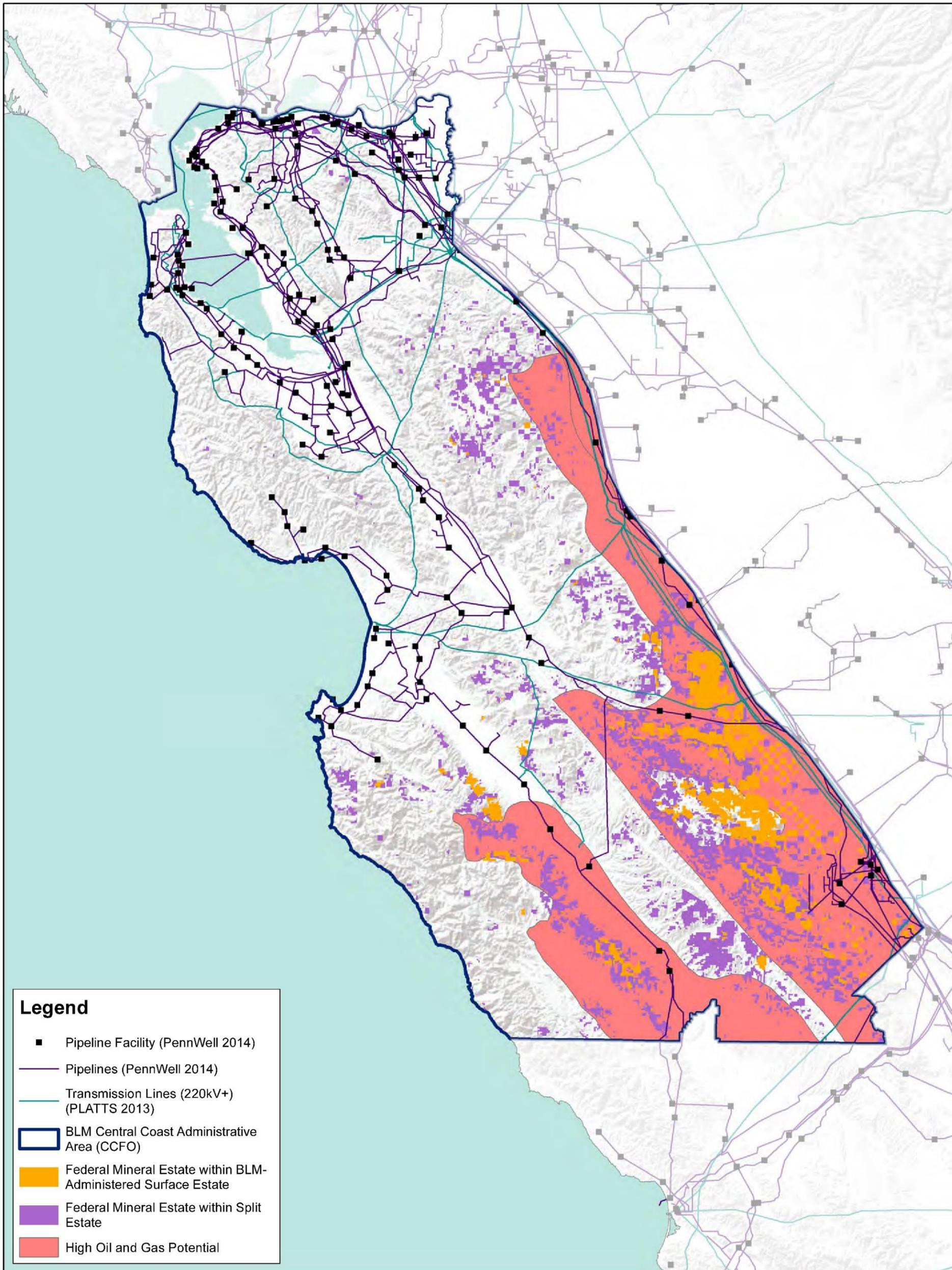
Date: December 2016



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CENTRAL COAST FIELD OFFICE

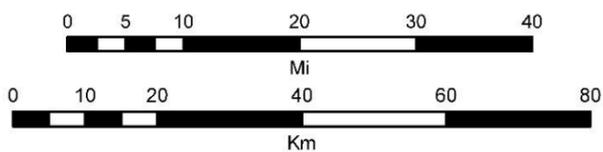
Figure 3.18-1
Regional Transportation Network

Date: December 2016



Legend

- Pipeline Facility (PennWell 2014)
- Pipelines (PennWell 2014)
- Transmission Lines (220kV+) (PLATTS 2013)
- BLM Central Coast Administrative Area (CCFO)
- Federal Mineral Estate within BLM-Administered Surface Estate
- Federal Mineral Estate within Split Estate
- High Oil and Gas Potential



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Figure 3.20-1
Existing Pipelines and
Transmission Lines



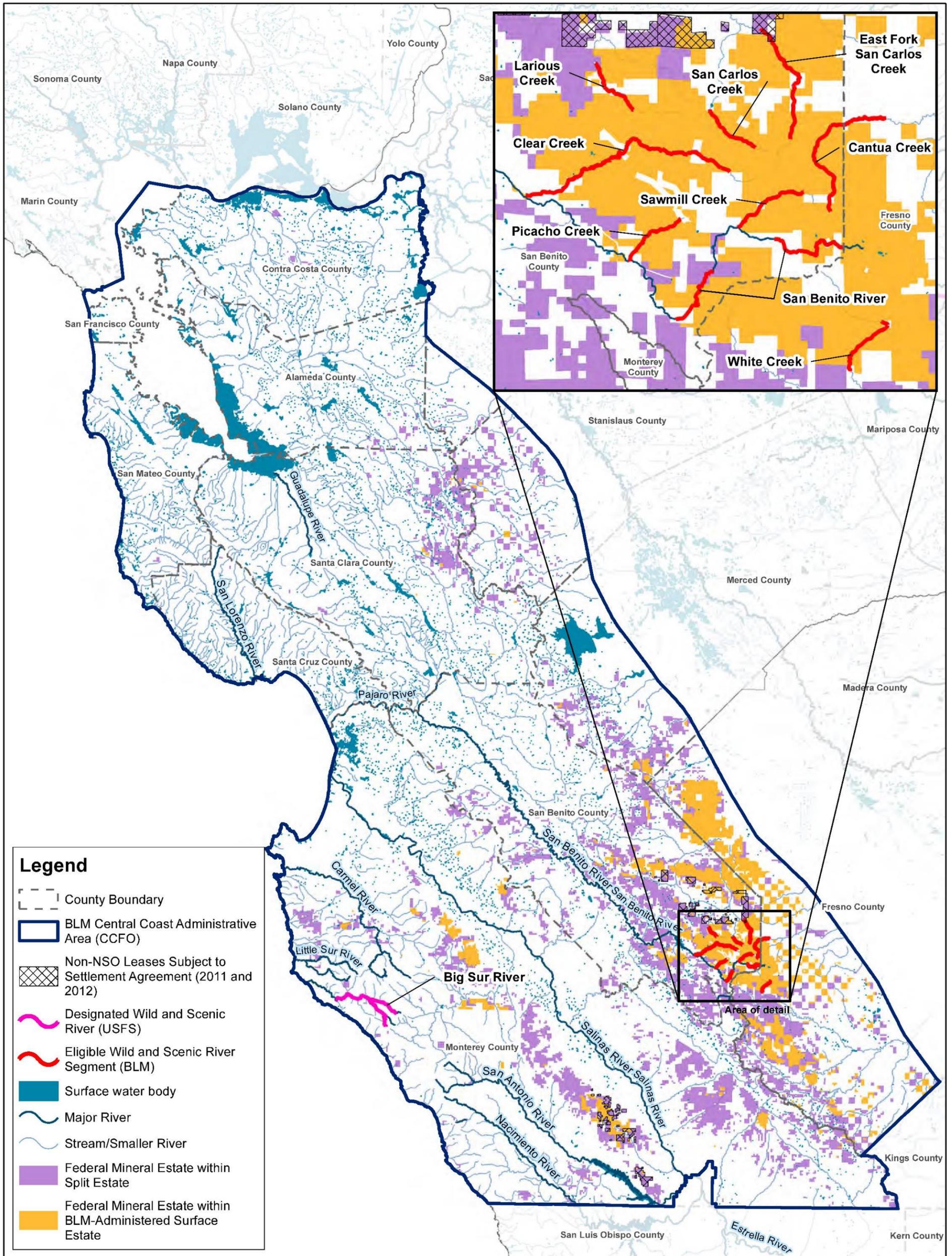
Source: BLM, 2015

Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000

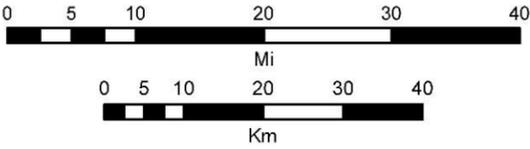


Date: December 2016



Legend

- County Boundary
- BLM Central Coast Administrative Area (CCFO)
- Non-NSO Leases Subject to Settlement Agreement (2011 and 2012)
- Designated Wild and Scenic River (USFS)
- Eligible Wild and Scenic River Segment (BLM)
- Surface water body
- Major River
- Stream/Smaller River
- Federal Mineral Estate within Split Estate
- Federal Mineral Estate within BLM-Administered Surface Estate



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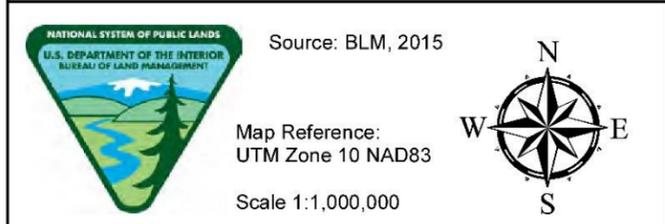
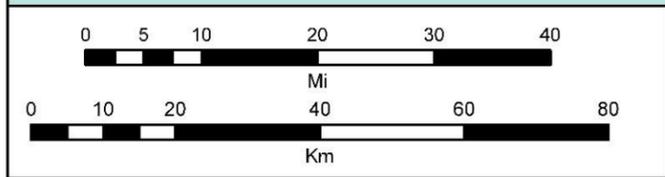
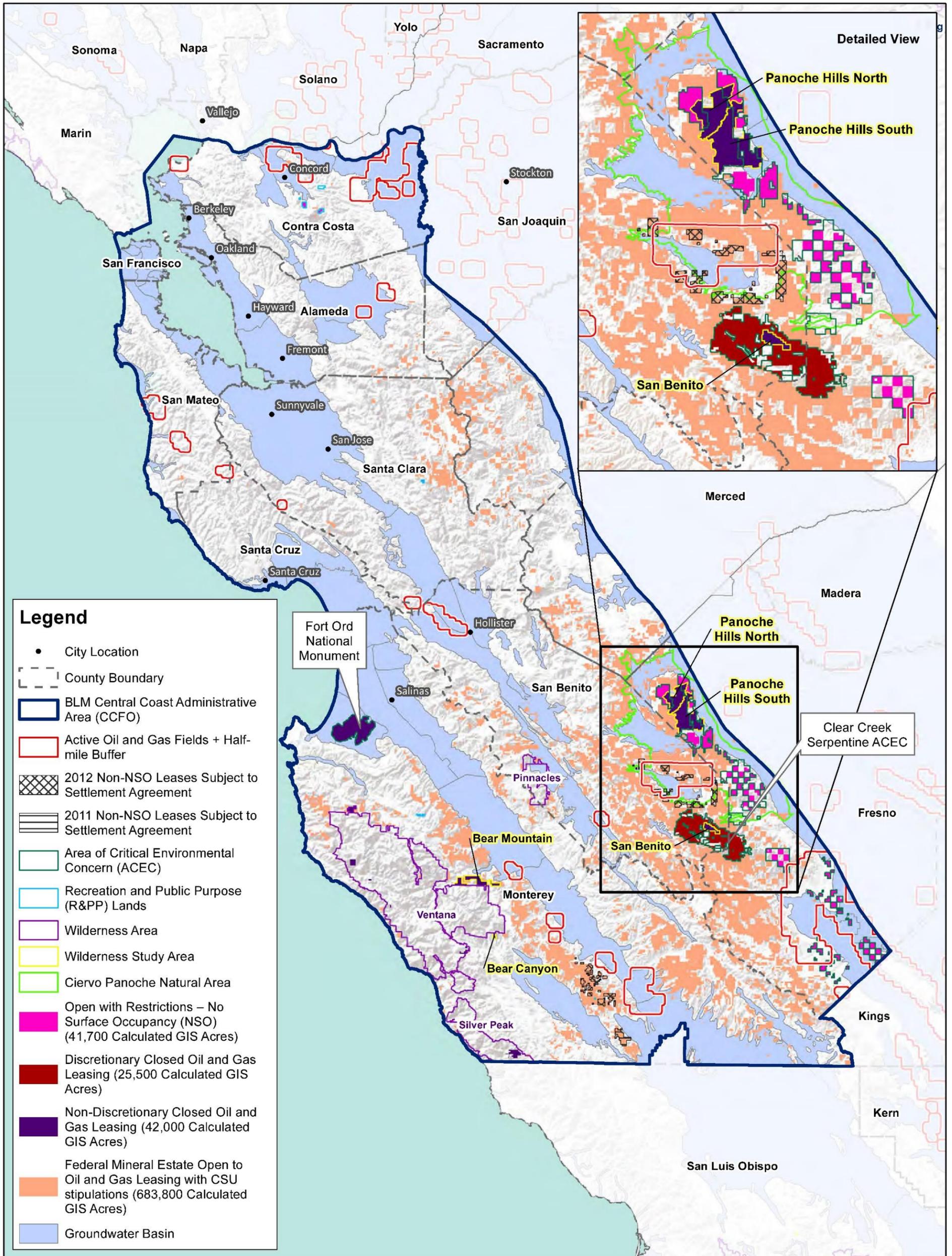
Figure 3.21-1
Wild and Scenic Rivers



Source: BLM, 2015
Map Reference:
UTM Zone 10 NAD83
Scale 1:1,000,000



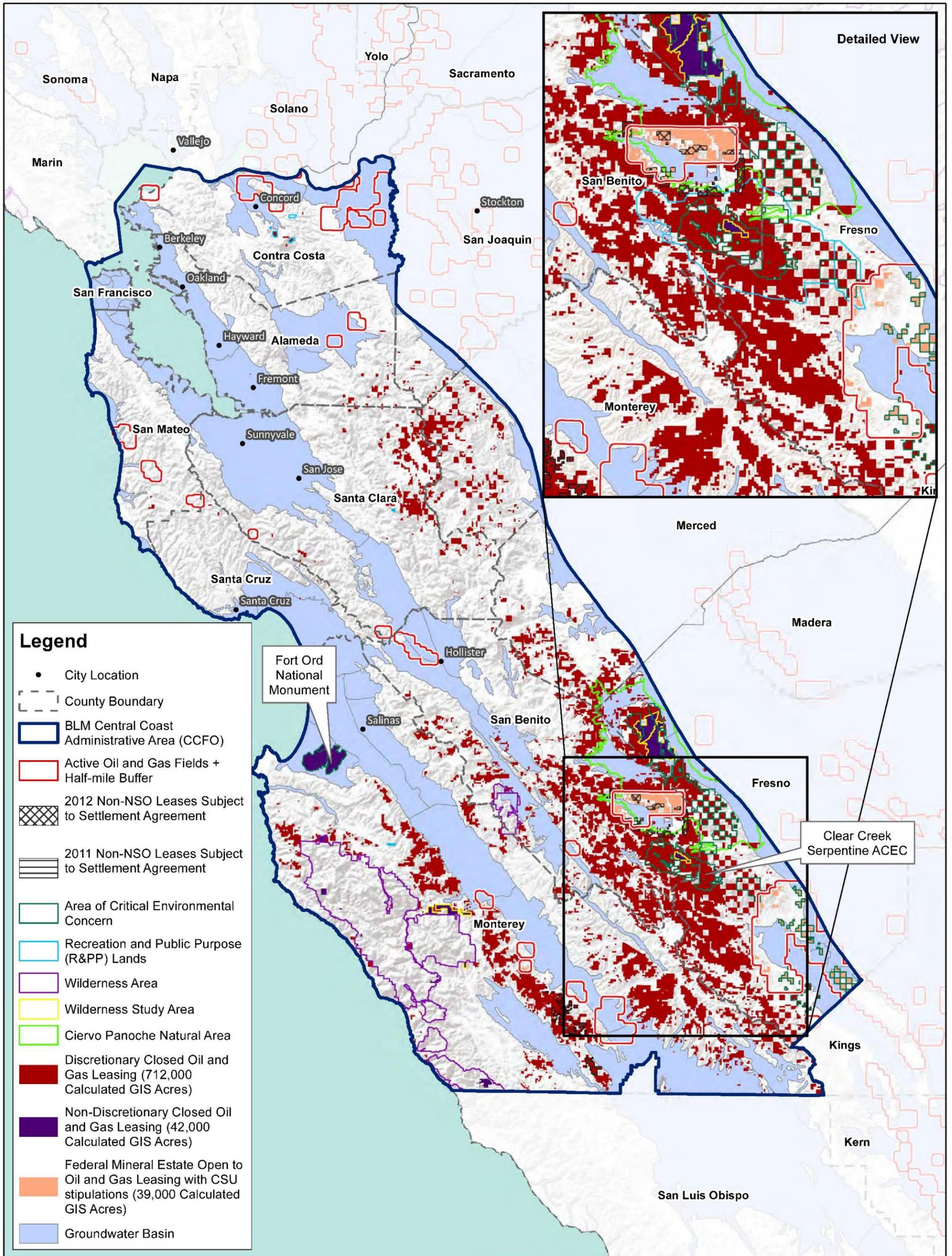
Date: December 2016



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CENTRAL COAST FIELD OFFICE

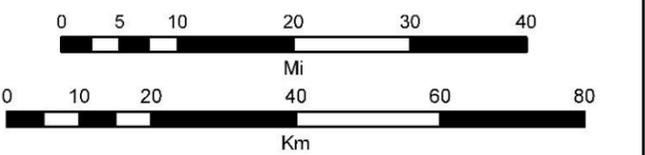
Figure 4.7-1
Groundwater Basins;
Alternative A
(No Action Alternative)

Date: December 2016



Legend

- City Location
- - - County Boundary
- ▭ BLM Central Coast Administrative Area (CCFO)
- ▭ Active Oil and Gas Fields + Half-mile Buffer
- ▨ 2012 Non-NSO Leases Subject to Settlement Agreement
- ▨ 2011 Non-NSO Leases Subject to Settlement Agreement
- ▭ Area of Critical Environmental Concern
- ▭ Recreation and Public Purpose (R&PP) Lands
- ▭ Wilderness Area
- ▭ Wilderness Study Area
- ▭ Ciervo Panoche Natural Area
- ▭ Discretionary Closed Oil and Gas Leasing (712,000 Calculated GIS Acres)
- ▭ Non-Discretionary Closed Oil and Gas Leasing (42,000 Calculated GIS Acres)
- ▭ Federal Mineral Estate Open to Oil and Gas Leasing with CSU stipulations (39,000 Calculated GIS Acres)
- ▭ Groundwater Basin



Source: BLM, 2015

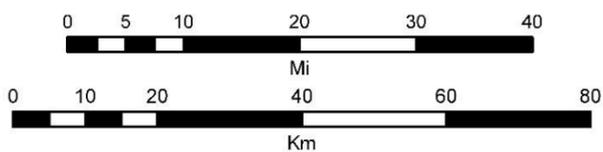
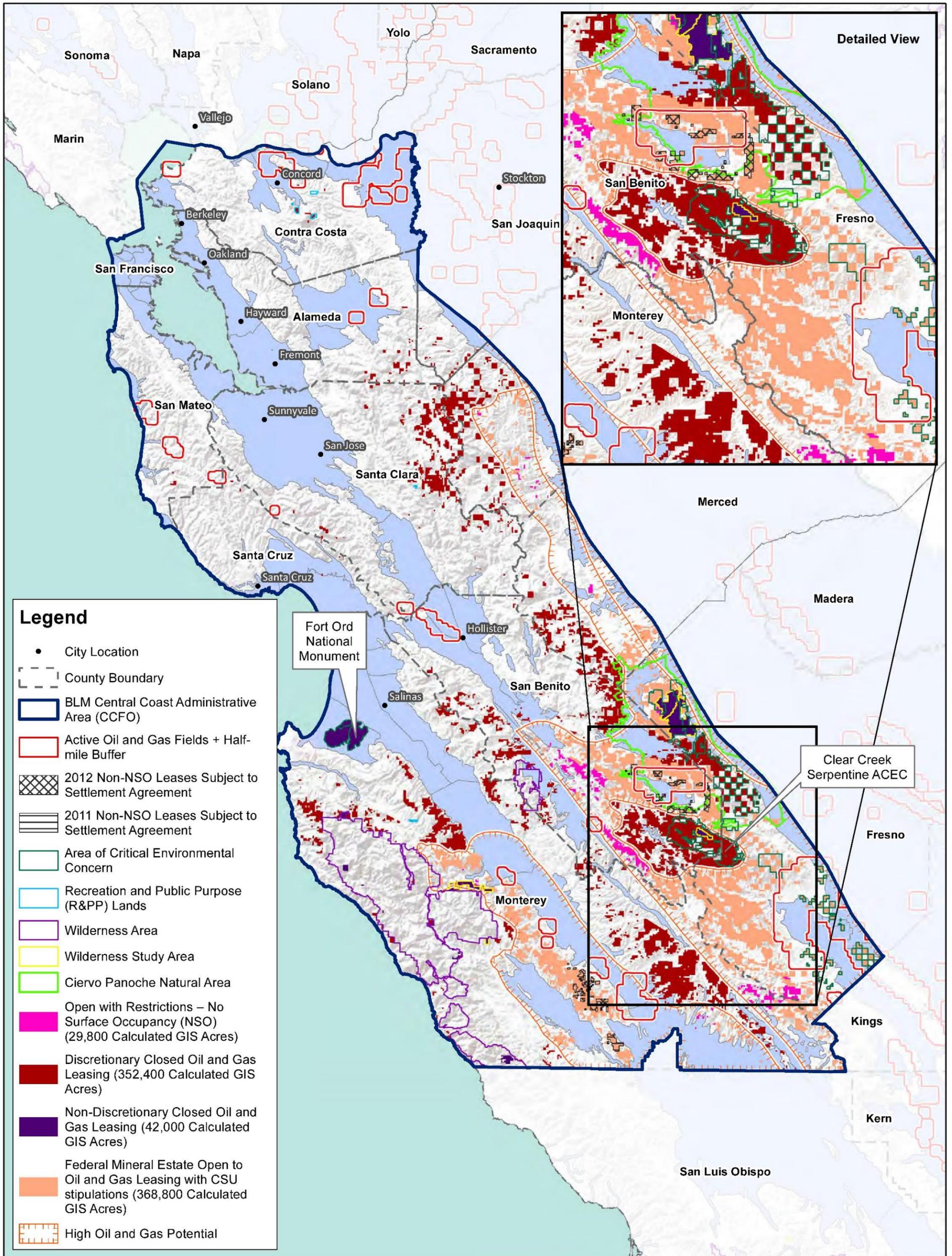
Map Reference: UTM Zone 10 NAD83

Scale 1:1,000,000

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CENTRAL COAST FIELD OFFICE

Figure 4.7-2
Groundwater Basins;
Alternative B

Date: December 2016



Source: BLM, 2015

Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000

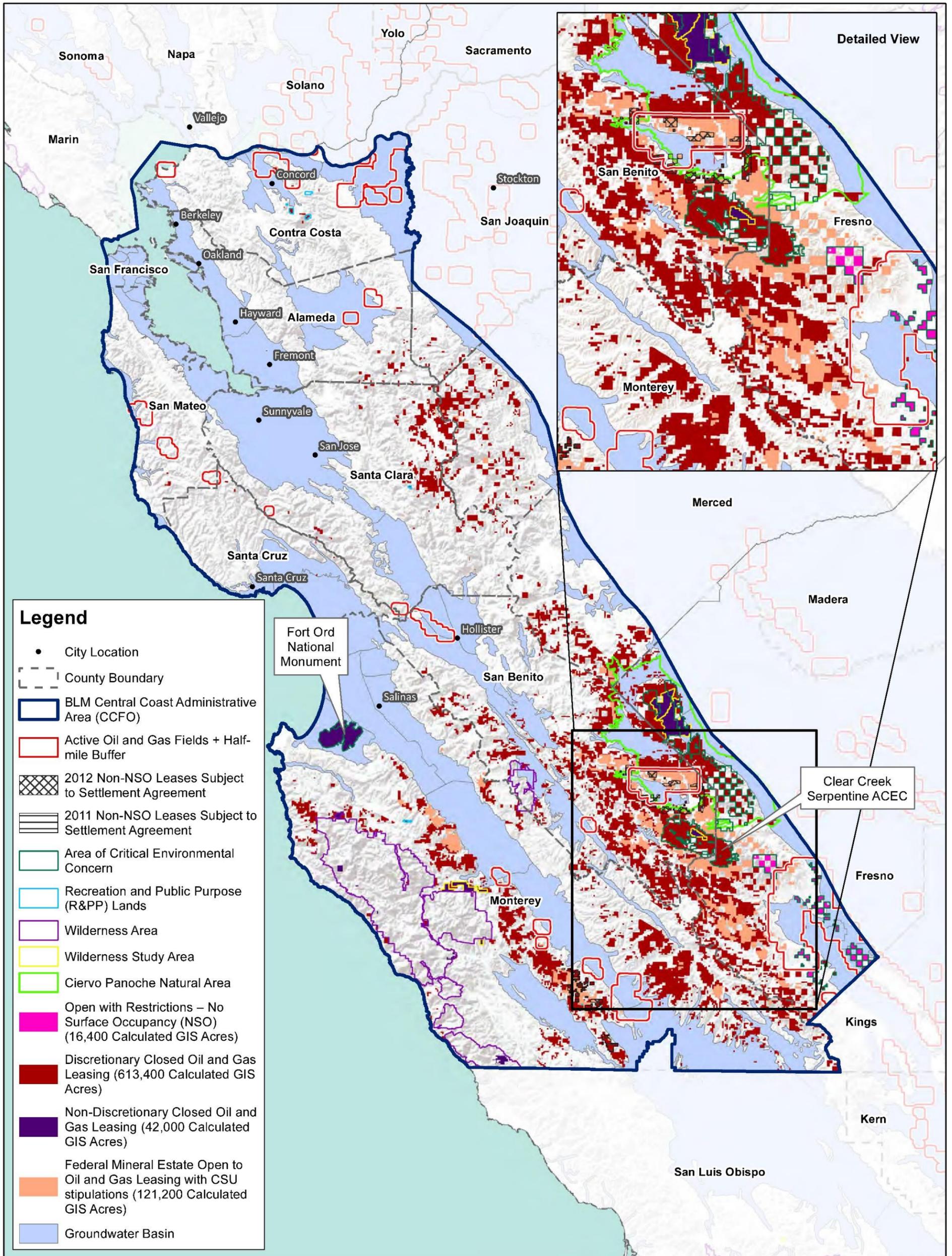


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CENTRAL COAST FIELD OFFICE

Figure 4.7-3

**Groundwater Basins;
Alternative C**

Date: December 2016



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CENTRAL COAST FIELD OFFICE

Figure 4.7-4
Groundwater Basins;
Alternative D



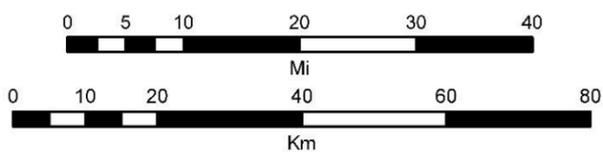
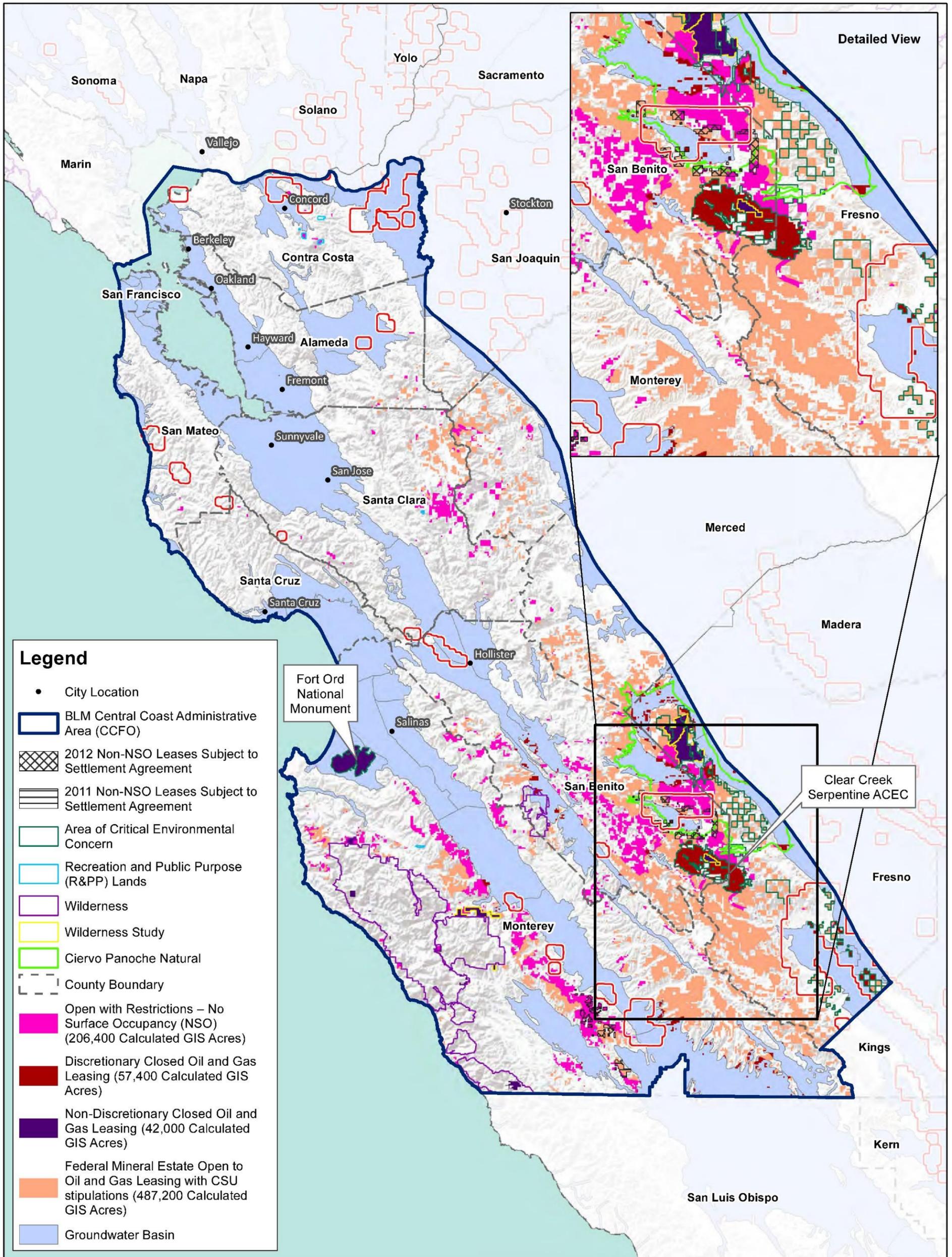
Source: BLM, 2015

Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000



Date: December 2016



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CENTRAL COAST FIELD OFFICE

Figure 4.7-5
Groundwater Basins;
Alternative E



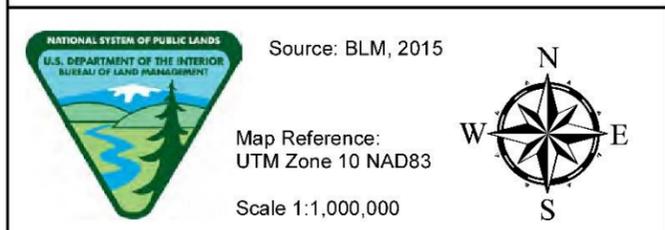
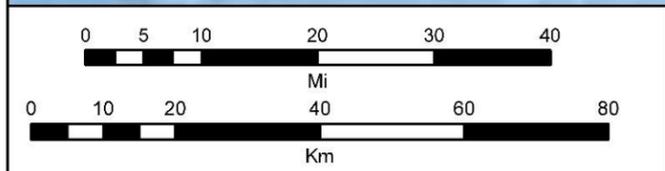
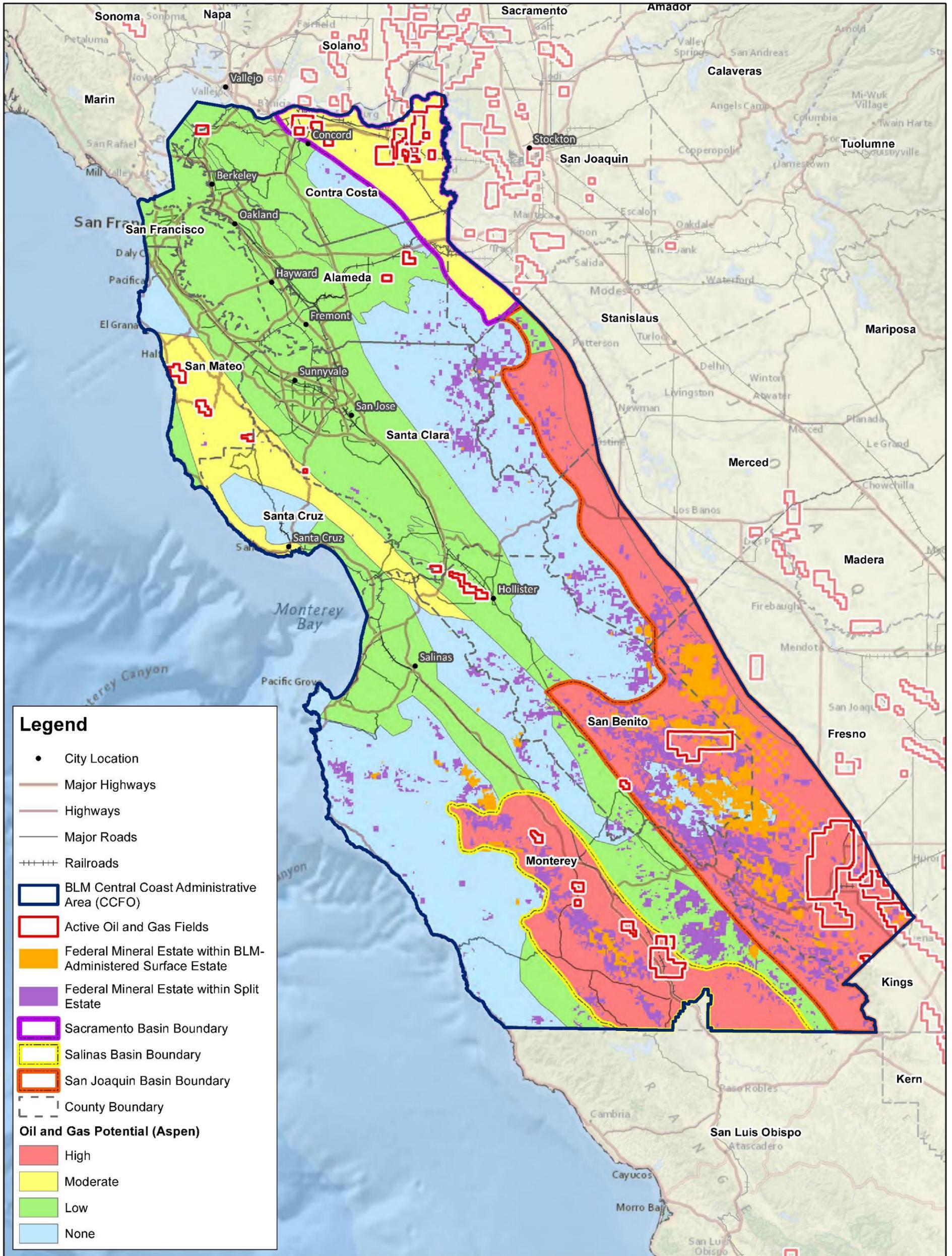
Source: BLM, 2015

Map Reference:
UTM Zone 10 NAD83

Scale 1:1,000,000



Date: December 2016



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Figure 5-1
Reasonably Foreseeable
Oil and Gas
Development Potential

Date: December 2016