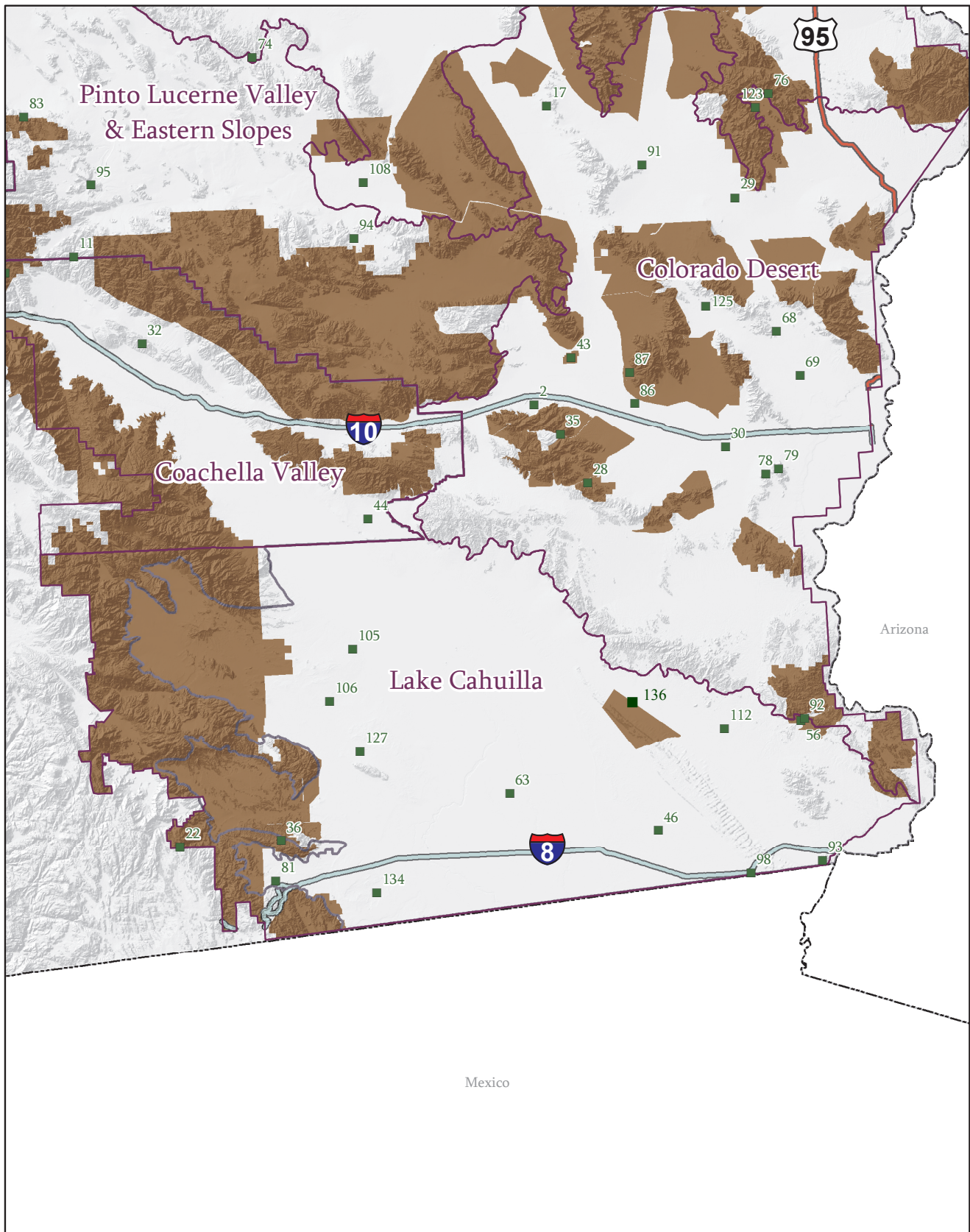




- Ecoregions
- ACEC
- Wildlife Allocation
- DRECP Boundary
- Legislatively & Legally Protected Areas

## DRECP Ecoregions-Lake Cahuilla

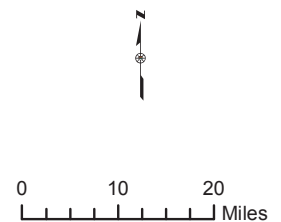


ACECs



9/14/2015

Draft Map Boundaries Subject to Change



## **Lake Cahuilla Subregion ACEC Units**

| <b>Unit Name</b>                     | <b>Map #</b> | <b>See Here for Special Unit Management Plan</b> |
|--------------------------------------|--------------|--------------------------------------------------|
| Chuckwalla                           | 28           | Colorado Desert Subregion                        |
| Coyote Mountains Fossil Site         | 36           | Page 500                                         |
| Dos Palmas                           | 44           | Coachella Valley Subregion                       |
| East Mesa                            | 46           | Page 511                                         |
| Indian Pass                          | 56           | Page 522                                         |
| Lake Cahuilla                        | 63           | Page 533                                         |
| North Algodones Dunes                | 136          | Page 548                                         |
| Ocotillo                             | 81           | Page 557                                         |
| Picacho                              | 92           | Colorado Desert Subregion                        |
| Pilot Knob                           | 93           | Page 567                                         |
| Plank Road                           | 98           | Page 577                                         |
| Salton Sea Hazardous                 | 105          | Page 587                                         |
| San Sebastian Marsh/San Felipe Creek | 106          | Page 596                                         |
| Shoreline                            | 63           | Page 607                                         |
| Singer Geoglyphs                     | 112          | Page 618                                         |
| West Mesa                            | 127          | Page 628                                         |
| Yuha Basin                           | 134          | Page 640                                         |



### Coyote Mountains Fossil Site

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location:** The Coyote Mountains Fossil Site ACEC is located within southwest Imperial County and is almost entirely encompassed by the Coyote Mountains Wilderness area.

**Nationally Significant Values:** Not proposed for NCLS designation.

**Special Designations/Management Plan/Date:** ACEC Plan No. 62, 01/08/1988

**Relevance and Importance Criteria:**

**Biological:** Although important primarily for geologic and paleontological values, these lands provide habitat linkage between the Imperial Valley and the mountains in Anza-Borrego Desert State Park. Animals that traverse these lands include Peninsular bighorn sheep. Addition of these conservation lands complement and enhance the landscape and ecosystem protection provided by the adjacent Coyote Mountains Wilderness and State Wilderness. The magic gecko, a lizard species of scientific and management concern, is also present within the ACEC. Some areas within the ACEC provide a combination of meteorological, geological, hydrological, topographical features that have been identified as important climate refugia (slow/minimized climate changes) for wildlife species.

**Cultural:** Pit and groove rock art, unusual and very rare for this part of the Colorado Desert, is located within these conservation lands and ACEC. These types of prehistoric archaeological sites are eligible for listing in the National Register of Historic Places (NRHP). The Coyote Mountains Fossil Site contain the largest collection of paleontological resources from the Imperial Group and includes a diverse fossil array. Ancient marine invertebrates such as clams, scallops, oysters, gastropods, sea urchins and sand dollars dominate the fossil types. Marine vertebrate fossils are rarer; however, sharks teeth, rays, sea cow, sea turtle, and portions of lower jaws of baleen whales have also been found within the unit. The San Diego Natural History Museum considers this site one of the most important and intact locations within the region and conducts ongoing scientific research regarding ancient shallow inland seas. The prehistoric archaeological rock art contains significant scientific information potential that makes it eligible for listing in the NRHP. Stunning sandstone rock formations (Wind Caves) are also located here. These Wind Caves are important recreationally to the area as they are a popular hiking destination.

**Overarching Goals:** Protect and enhance the significant paleontological and cultural resources. Protect and improve the habitat of the state listed species to comply with existing legislation and BLM policies.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

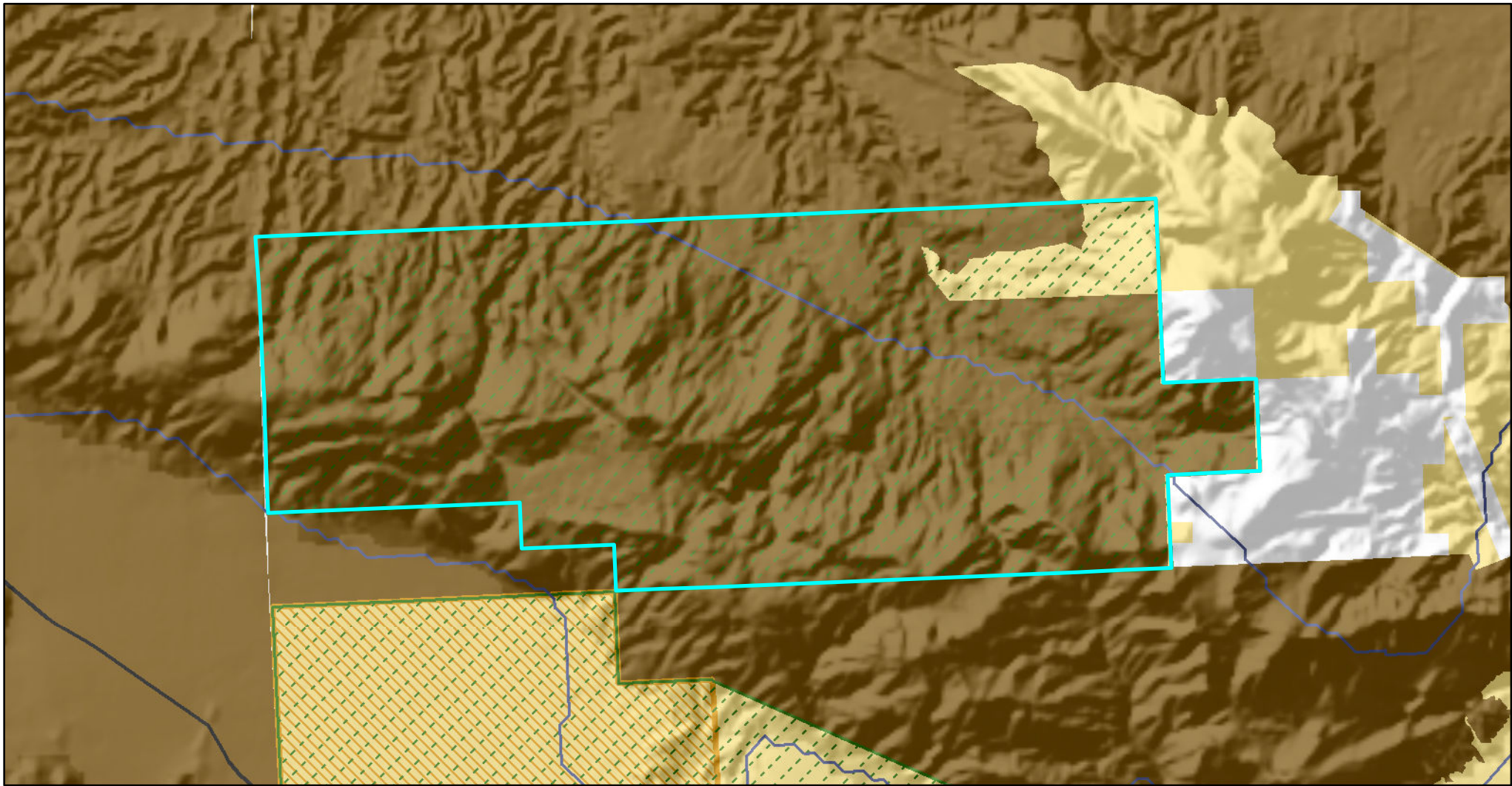
| <b>Designation and Acreage by Alternative:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      |                       |                                                  |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|--------------------------------------------------|----------------------|
| Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation             | ACEC Disturbance Cap |
| No Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0                                                    | 5,900                 | 0                                                | NA                   |
| Preferred Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                                                    | 5,900                 | 0                                                | 1%                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0                                                    | 5,900                 | 0                                                | 1%                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0                                                    | 5,900                 | 0                                                | 1%                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0                                                    | 5,900                 | 0                                                | 1%                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0                                                    | 5,900                 | 0                                                | 1%                   |
| <p><b>* Acreage values are for BLM managed lands</b><br/> This ACEC almost completely overlaps designated wilderness, thus is automatically included in NCLS.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |                       |                                                  |                      |
| <b>Objectives (desired future condition)/Allowable Uses/Management Actions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      |                       | <b>Resource</b>                                  |                      |
| <p>Vegetation of the ACEC is composed of creosote bush scrub, succulent scrub and desert microphyll woodland communities. The major components of the creosote bush scrub community include creosote bush (<i>Larrea tridentata</i>), bursage (<i>Ambrosia dumosa</i>), brittlebush (<i>Encelia farinosa</i>), and cholla (<i>Opuntia</i> spp.). Major components of the succulent scrub community are cacti, including cholla, hedgehog cactus (<i>Echinocereus engelmanni</i> var. <i>engelmanni</i>), and barrel cactus (<i>Ferocactus acanthocarpa</i>). The microphyll woodland community includes cat claw (<i>Acacia greggi</i>), mesquite (<i>Prosopis juliflora</i>), palo verde (<i>Parkinsonia florida</i>), and ironwood (<i>Oleña tesota</i>). The latter species are quite rare in the ACEC. Special Status Species include the brown turbans and rock nettle.</p> <p>Objective: Create a baseline of plant species to track environmental changes.<br/> Management Action: Inventory vascular and non-vascular plants, include soil crust species, in the ACEC.</p> |                                                      |                       | Vegetation (incl. special status species)        |                      |
| <p>Special Status Species: Bighorn sheep, Magic gecko</p> <p>Objective: Maintain and enhance habitat that supports native wildlife.<br/> Management Action: Monitor wildlife for habitat and population change.</p> <p>Objective: Manage landscape to ensure wildlife passage and connectivity between wildlife populations.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                       | Fish and Wildlife (incl. special status species) |                      |
| <b>Objective 1:</b> Protect biodiversity and manage for resilience (protect climate refugia and provide for migration corridors).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |                       | Climate Change and Adaptation                    |                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <p>Management Action 1: Prioritize habitat enhancement in areas expected to provide for the greatest level of resiliency (good response or rehabilitation results after significant disturbance such as fire) and or resistance to change (e.g. climate refugia).</p> <p>Management Action 2: Consider actions that enhance the primary productivity of climate refugia with native species restoration, reduced soil surface disturbance, and habitat infrastructure to increase carrying capacity of refugia (e.g., wetland, oasis).</p> <p>Management Action 3: Maintain migration corridor integrity by minimizing obstructions (fences, roads), disturbances (limiting access to water and shade during peak temperatures) and habitat fragmentation.</p> <p><b>Objective 2:</b> Maintain and or enhance key ecosystem processes (e.g., carbon sequestration, water residence time) and prepare and respond to significant disturbances to the environment (e.g. floods).</p> <p>Management Action 1: Develop proactive and responsive management actions for potentially dangerous and damaging disturbances to the environment, which are exacerbated by climate change (e.g. wildfire, flash floods, etc.).</p> <p>Management Action 2: Minimize carbon sequestration losses from management activities by reducing impacts to vegetation, soil structure and soil biota.</p> <p>Management Action 3: Leverage disturbance events and other landscape changes, when possible, as opportunities to assess climate adaptation actions. For example, revegetation objectives for projected climate scenarios benefiting multiple ecosystem services (habitat and carbon sequestration objectives).</p> |                    |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Provide for the protection and enhancement of cultural resources.<br/>Management Action: Conduct patrols and surveillance.<br/>Management Action: Nominate the significant rock art site or potential district to the NRHP.<br/>Management Action: Install informative signage and kiosk to ensure the public is aware of restrictions as well as provide general education about the unique and important resources.<br/>Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the unusual rock art that is present within the ACEC.</p> <p>Objective: Fully document and record the significant rock art site as well as any</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cultural Resources |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <p>new similar type sites that may exist within the ACEC.</p> <p>Management Action: Work with local archaeological organizations and institutions to develop partnerships to enable proactive survey and recordation.</p> <p>Management Action: Apply for grant or other funding to pay for contracting.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |
| <p>Objective: Ensure the general management and protection of paleontological resources.</p> <p>Management Action: Manage and protect fossil resources consistent with the Paleontological Resources Preservation Act and the Omnibus Act.</p> <p>Management Action: Develop plans and cooperative agreements to increase the inventory and scientific and educational use of paleontological resources.</p> <p>Management Action: Prohibit casual collection of invertebrate and vertebrate fossils without a permit.</p> <p>Management Action: Increase compliance with protection of the resources in the area.</p> <p>Management Action: Install informative signage and kiosks to ensure the public is aware of restrictions as well as provide general education about the unique and important resources.</p> | Paleontology                 |
| <p>Objective: Maintain existing closure of the area to vehicular travel.</p> <p>Allowable Uses: This area is closed to vehicular travel.</p> <p>Management Actions: Increase BLM presence in the area to improve compliance.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Trails and Travel Management |
| <p>Objective: Promote non-motorized recreation. The most prominent recreational activities in the area include hiking, backpacking, nature study, sightseeing, and desert exploration.</p> <p>Allowable Uses: Not limited to; hiking, hunting, target shooting, etc.</p> <p>Objective: Promote and enhance public understanding regarding the prohibition against collecting invertebrate and vertebrate fossils without a permit.</p> <p>Management Actions: Maintain existing signage and kiosks to ensure the public is aware of restrictions as well as provide general education about the unique and important resources.</p> <p>Management Action: Increase compliance with protection of resources in the area.</p>                                                                                          | Recreation                   |
| <p>Objective: Consolidate through tenure adjustment.</p> <p>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Land Tenure                  |
| <p>The majority of the ACEC boundaries are overlapped by the Coyote Mountain Wilderness area. ROWs are not allowed within the Wilderness area.</p> <p>Objective: Protect resource values of the ACEC</p> <p>Management Action: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.</p>                                                                                                                                                                                                                                                                                                                                                                                             | Rights of Way                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <p>Closed to renewable energy development.</p> <p><b>Geothermal:</b> ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Renewable Energy                                                |
| <p>60 mining claims present within the ACEC when designated in 1987. Gold, copper, manganese, and nickel are known to exist in the area. There is a high potential for saleable mineral development. Portions of ACEC currently within the Coyote Mountains Wilderness are however excluded from mineral entry; locatable and saleable mineral development would not be permitted on lands within the wilderness.</p> <p>Objective: Ensure paleontological and wildlife resources are not impacted during the process of mineral exploration.</p> <p>Action: Consider projects on a case-by-case basis through normal environmental assessment process or through wilderness IMP procedures and permit those which are consistent with the management of the Coyote Mountains wildlife Habitat Area Management Plan. Continuous restriction of mineral development and all mechanized operations on lands within the Coyote Mountain Wilderness.</p> | Locatable Minerals<br>Mineral Materials<br>Non-Energy Leasables |



### Conservation Footprint

- |                                                                                                                           |                                                                                                    |                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Legislatively & Legally Protected Areas |  DRECP Boundary | Land Status                                                                                                   |
|  National Conservation Lands             |  CDCA Boundary  |  Bureau of Land Management |

### ACEC Boundaries

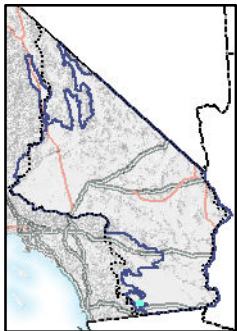
-  1% Disturbance Cap

0 0.5 1 Miles

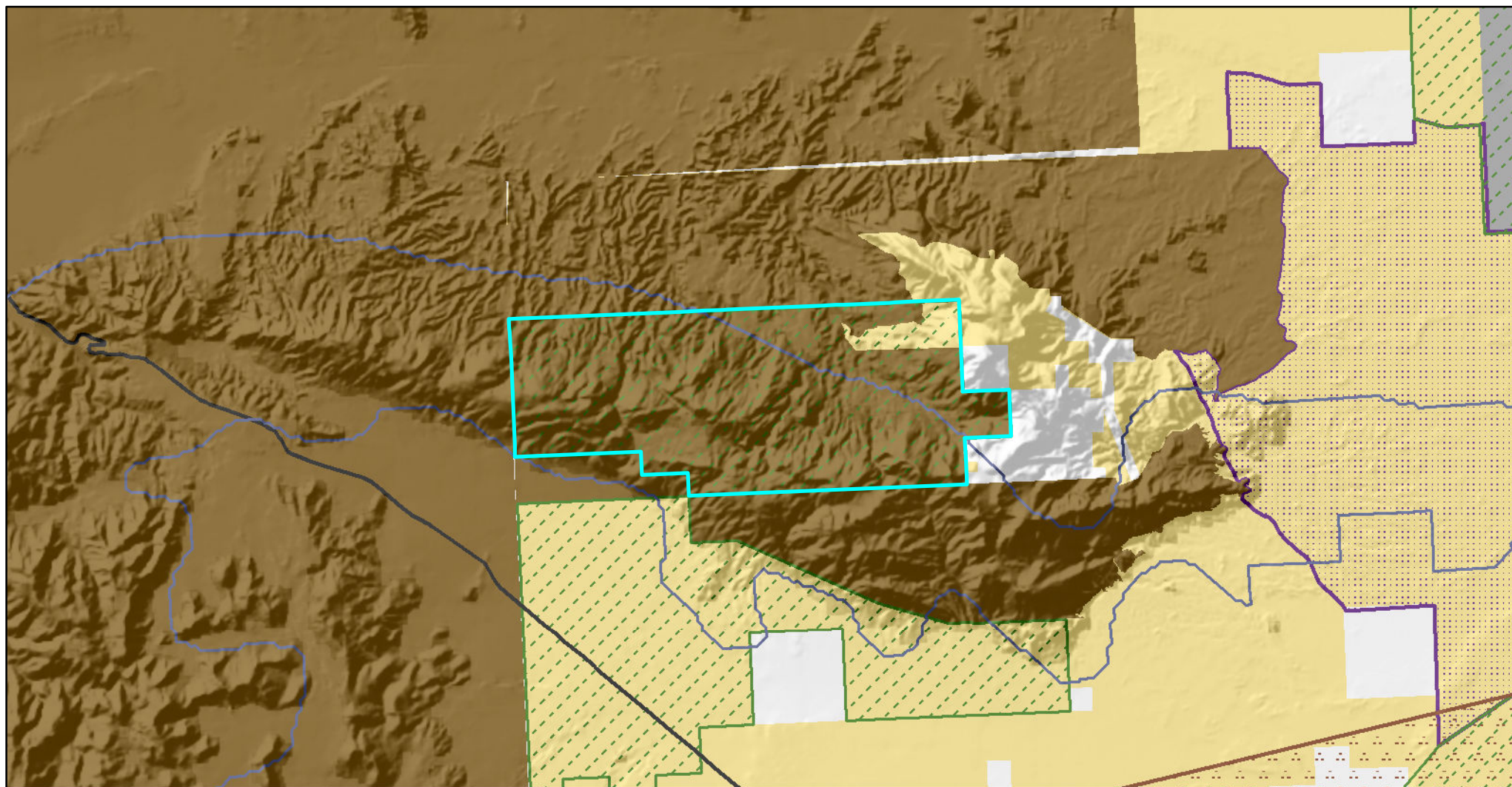
## Coyote Mountains Fossil Site

7/2/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Land Status

Bureau of Land Management

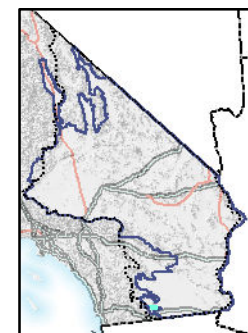
Department of Defense

0 1 2 Miles

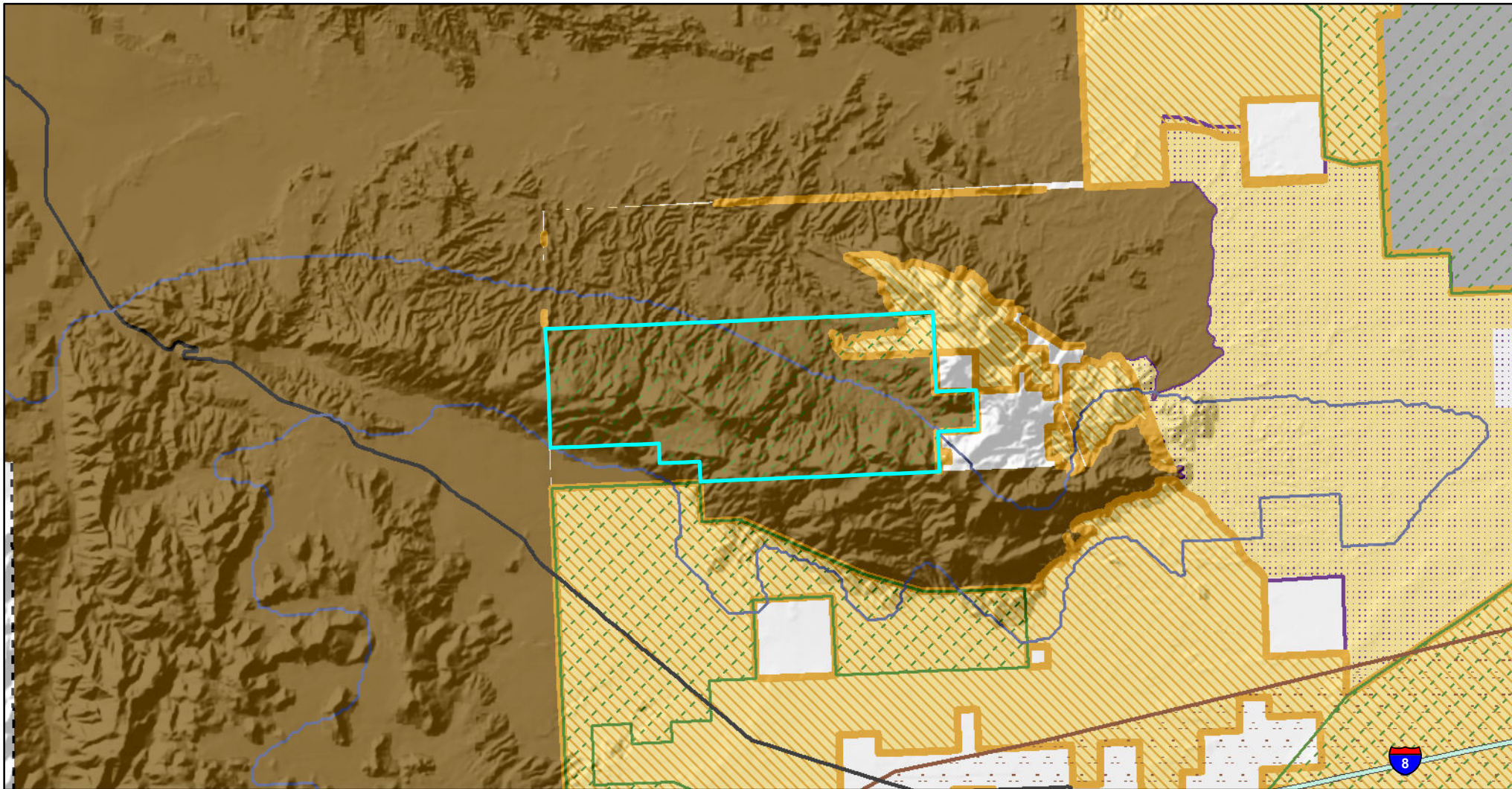
## Coyote Mountains Fossil Site Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Land Status

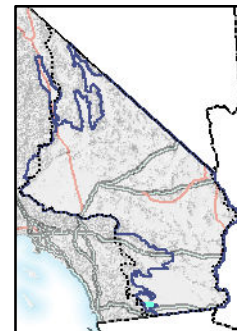
Bureau of Land Management

Department of Defense

## Coyote Mountains Fossil Site Alternative 2

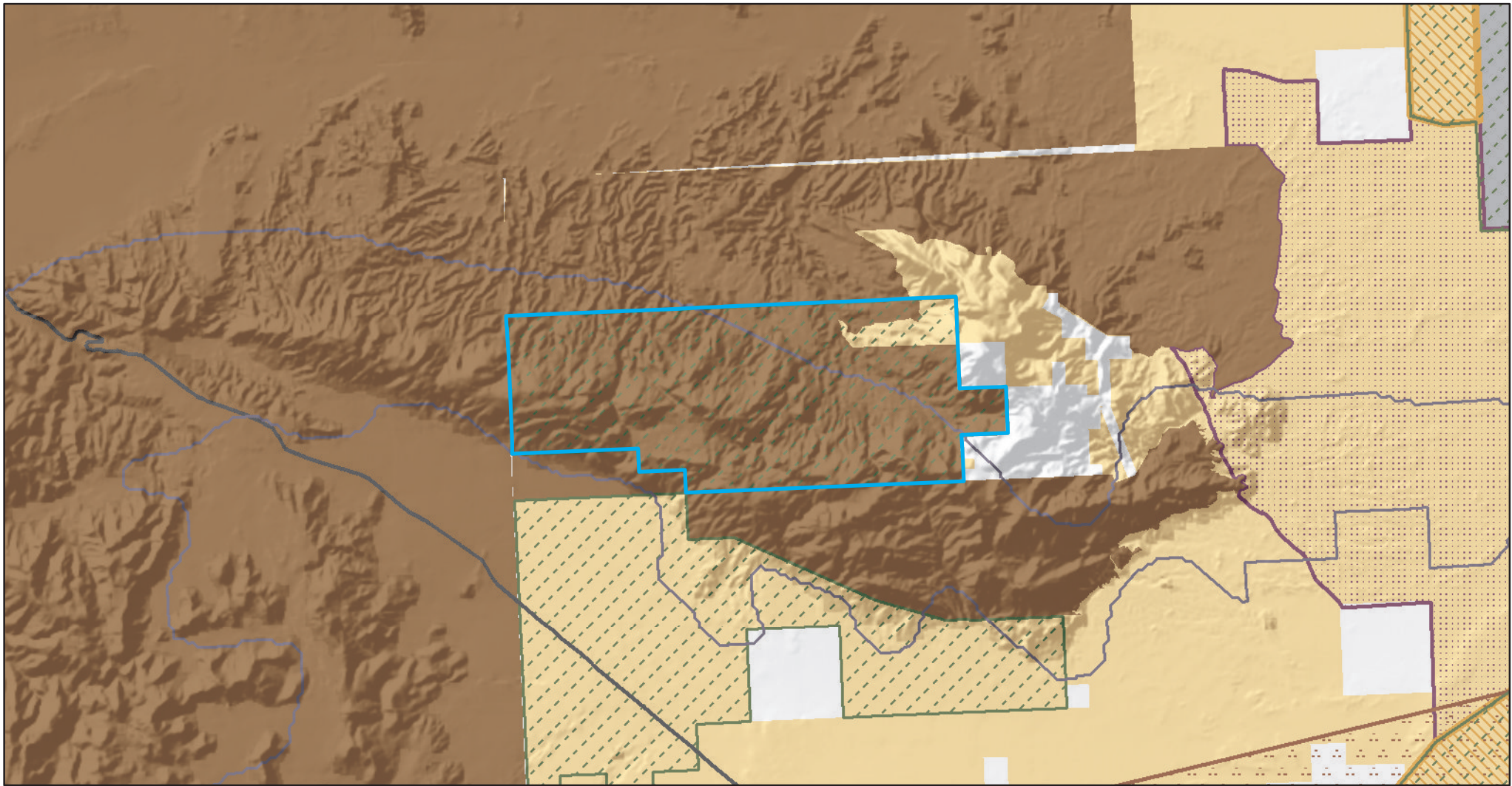
8/26/2015

Draft Map Boundaries Subject to Change



0 1 2  
Miles





## Conservation Footprint

 Legislatively & Legally Protected Areas

 National Conservation Lands

## ACEC Boundaries

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 Transmission Corridor

 OHV Boundary

## Land Status

 Bureau of Land Management

 Department of Defense

## Coyote Mountains Fossil Site Alternative 3

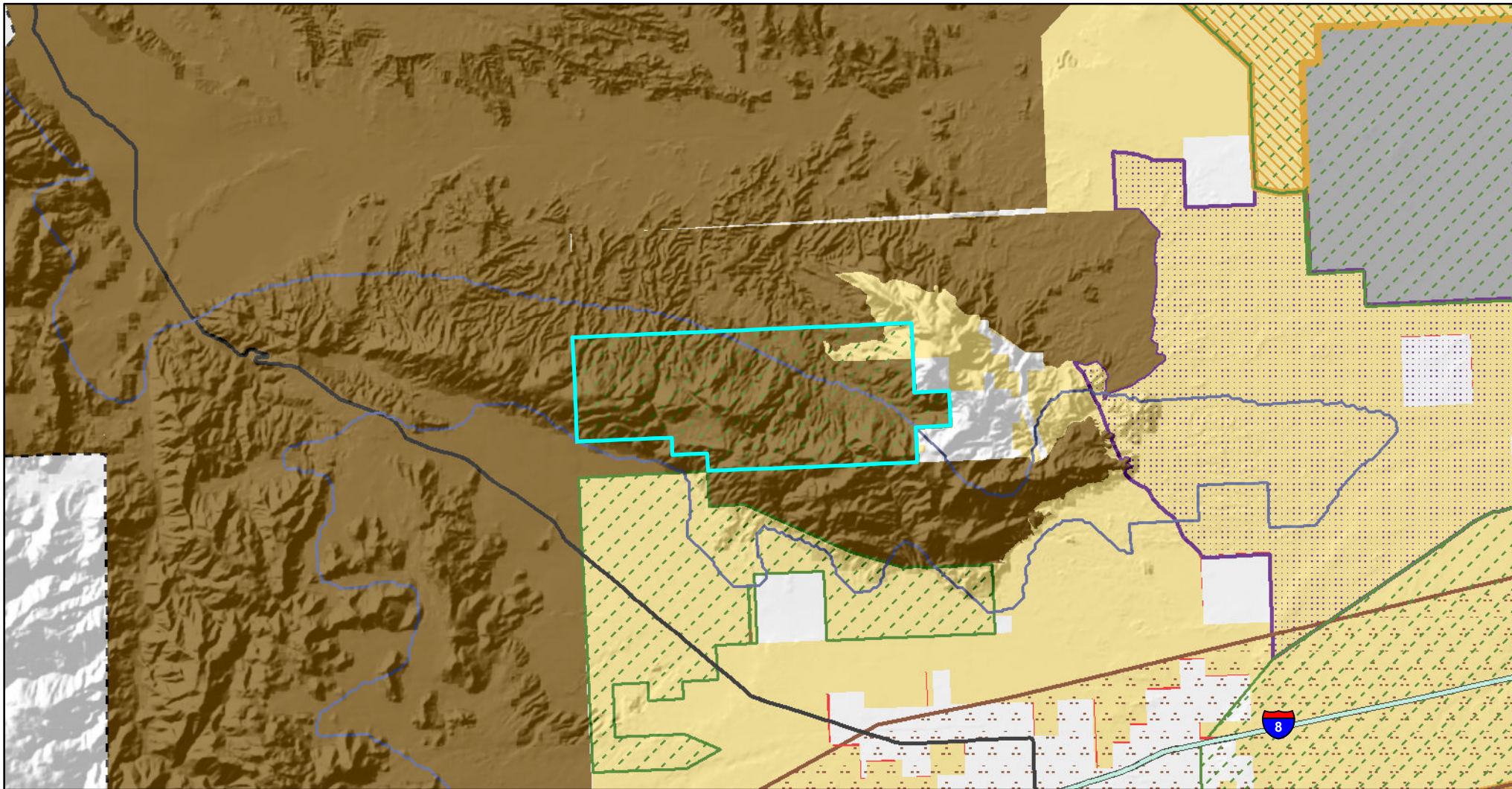
8/26/2015

Draft Map Boundaries Subject to Change

0 1 2  
Miles







### Conservation Footprint

National Conservation Lands

Legislatively & Legally Protected Areas

### ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Variance Lands

### Land Status

Bureau of Land Management

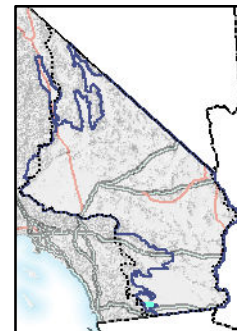
Department of Defense

## Coyote Mountains Fossil Site

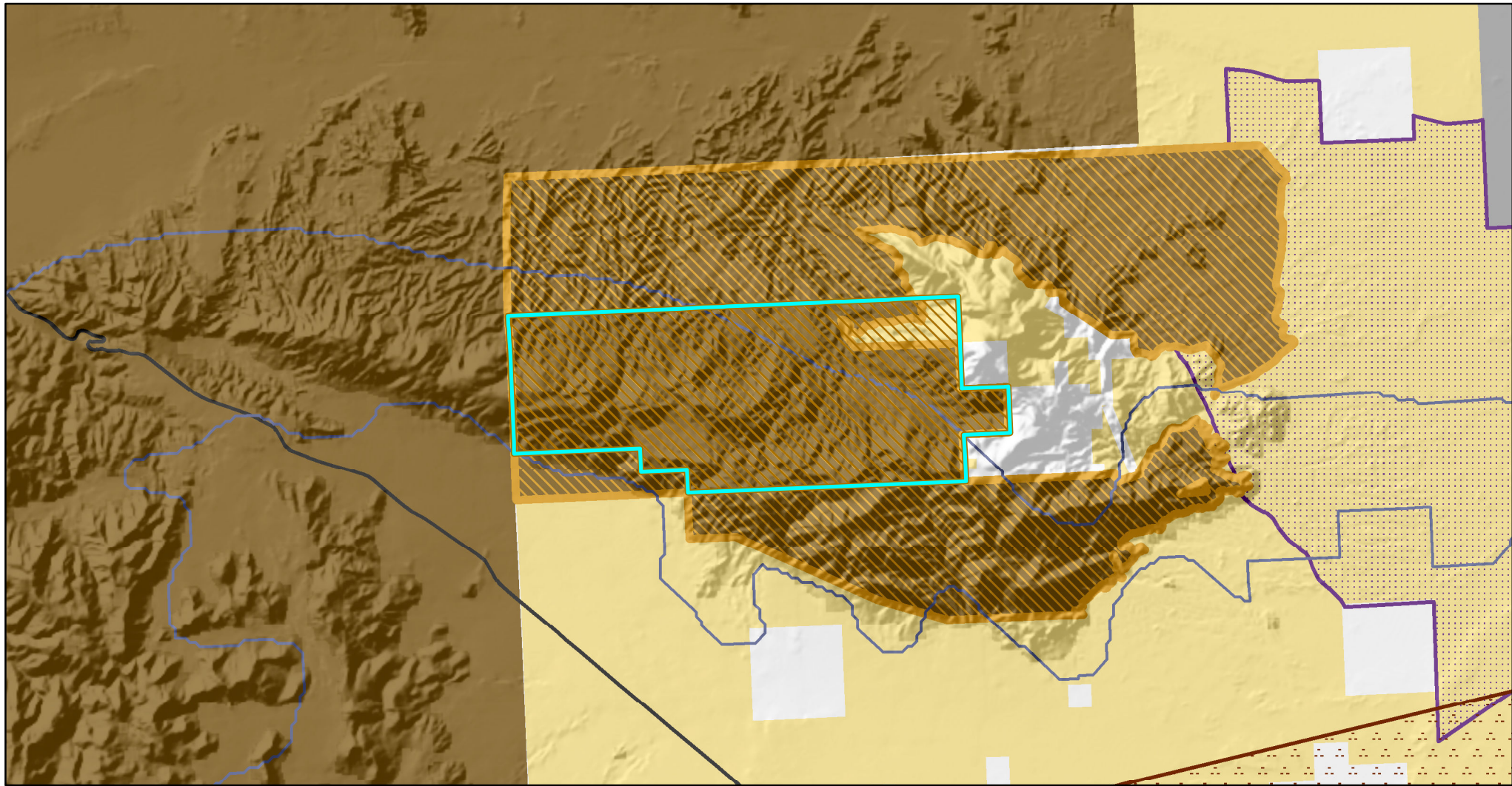
Alternative 4

8/27/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

- |                       |                                         |
|-----------------------|-----------------------------------------|
| Existing ACEC         | National Conservation Lands             |
| Transmission Corridor | OHV Boundary                            |
| CDCA Boundary         | Legislatively & Legally Protected Areas |
| DRECP Boundary        |                                         |

### Land Status

- |                           |                       |
|---------------------------|-----------------------|
| Bureau of Land Management | Department of Defense |
|---------------------------|-----------------------|

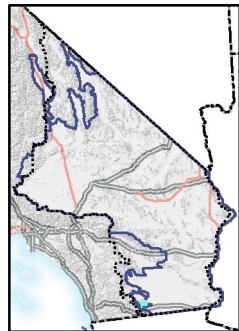
## Coyote Mountains Fossil Site

**No Action**

9/15/2015

Draft Map Boundaries Subject to Change

0 2 4 Miles



## East Mesa

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location:** This proposal includes National Conservation Lands and an expansion of the existing East Mesa ACEC. These lands are located in southeastern Imperial County, about 16 miles southeast of El Centro, California and west of the Imperial Sand Dunes Recreation Area.

**Nationally Significant Values:**

**Cultural:** These conservation lands and expanded ACEC contain significant prehistoric archaeological sites including habitation, possible cremations, trails systems/segments, habitation sites, and areas of traditional and sacred values to Native American tribes. These sites are eligible for listing in the National Register of Historic Places (NRHP).

**Ecological:** The conservation lands and expanded ACEC contain some of the largest contiguous range for the flat-tailed horned lizards (a federally listed Sensitive Species) and includes multiple sections of high population densities.

**Scientific:** Prehistoric archaeological sites with scientific information potential that make them eligible for listing in the NRHP are located within these conservation lands and expanded ACEC.

**Special Designations/Management Plan/Date:** East Mesa ACEC Plan 70/1982

**Relevance and Importance Criteria:** In addition to significant cultural resources and the flat-tail horned lizard presence, other relevant wildlife, recreational, and geothermal resources exist in this ACEC. East Mesa provides habitat for a variety of bird species on the Audubon Society Blue List. Special status vegetation including *Ammobroma sonorae* and *Croton wigginsii* are found in the area. Significant geothermal resources and existing leases are located in the East Mesa.

**Proposed Expansion:** This ACEC is proposed to expand, northward to more closely align with the Flat-tailed Horned Lizard Range-wide Management Conservation Strategy.

**Overarching Goals:** To protect the unique wildlife and cultural values within those portions of the East Mesa.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e., management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

**Designation and Acreage by Alternative:**

| Alternative           | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation | ACEC Disturbance Cap |
|-----------------------|------------------------------------------------------|-----------------------|--------------------------------------|----------------------|
| No Action             | 0                                                    | 42,100                | 0                                    | 1%                   |
| Preferred Alternative | 84,174                                               | 88,484                | 0                                    | 1%                   |
| 1                     | 0                                                    | 103,900               | 0                                    | 0.10, 1%             |
| 2                     | 94,300                                               | 94,300                | 0                                    | 0.10, 1%             |
| 3                     | 94,900                                               | 103,900               | 0                                    | 0.10, 1%             |
| 4                     | 74,700                                               | 94,100                | 0                                    | 0.10, 1%             |

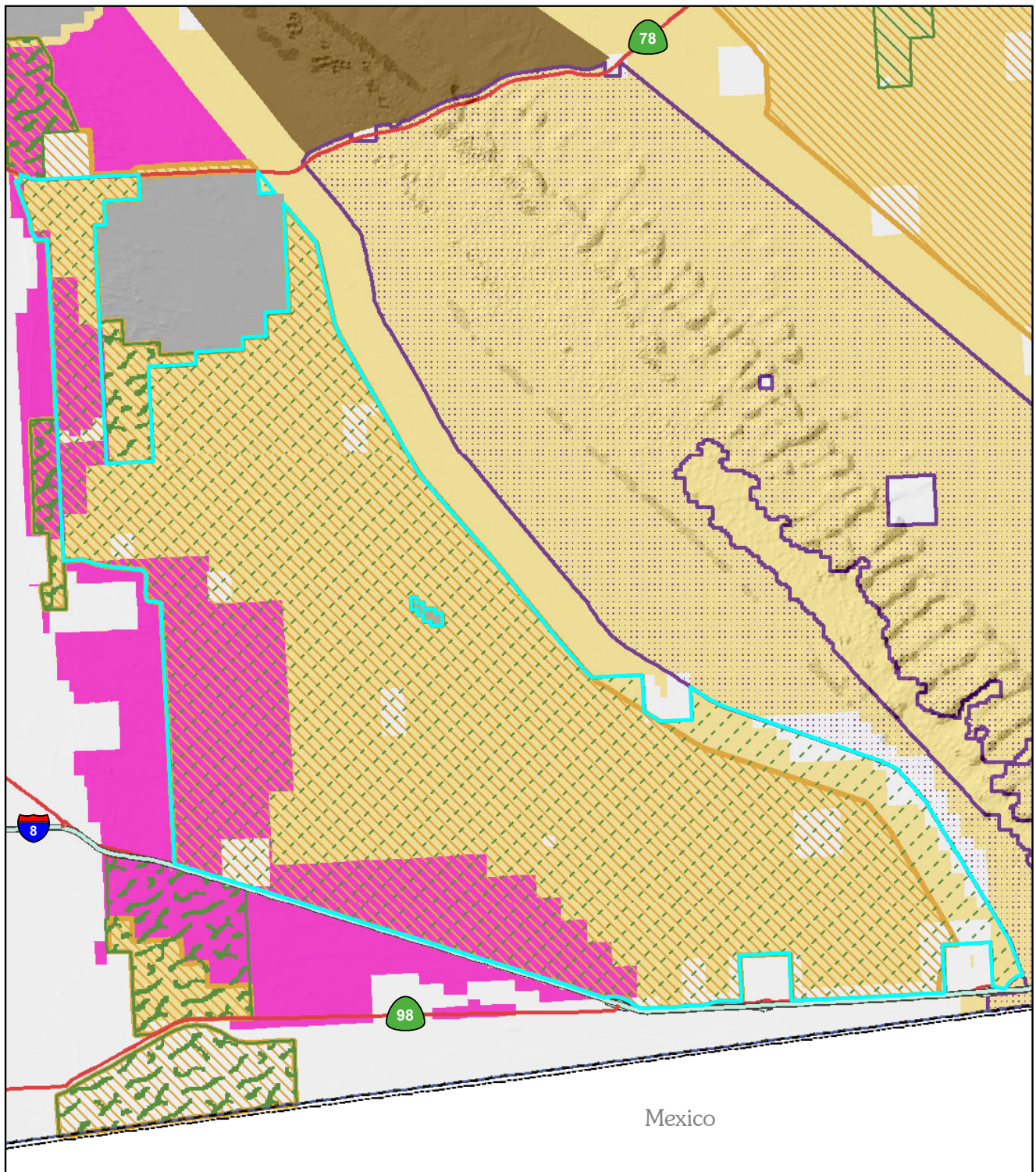
**\* Acreage values are for BLM managed lands**

| Objectives (desired future condition)/Allowable Uses/Management Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Resource                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <p>The vegetation type in this ACEC is Creosote Bush Scrub. Sensitive plant species including silver-leaved sunflower, sand food, and Croton wigginsii are found within this ACEC.</p> <p>Objective: Maintain robust populations of native plants.<br/>Management Action: Manage vehicular traffic to stay on designated OHV routes. This will protect the habitat of these species.</p> <p>Objective: Create a baseline of plant species to track environmental changes.<br/>Management Action: Inventory vascular and non-vascular plants, include soil crust species, in the ACEC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vegetation (incl. special status species)        |
| <p>The ACEC is utilized by several significant species in addition to the flat-tailed horned lizard. These include the sharp-shinned hawk (<i>Accipiter striatus</i>), Cooper's hawk (<i>A. cooperi</i>), Swainson's hawk (<i>Buteo swainsoni</i>), ferruginous hawk (<i>B. haliaetus</i>), kerican kestrel (<i>Falco sparverius</i>), white winged dove (<i>Zenaida asiatica</i>), mourning dove (<i>macroura</i>), ground dove (<i>Columb1na passerina</i>), burrowing owl (<i>Speotyto cunicularia</i>), loggerhead shrike (<i>Lanius ludovicianus</i>), yellow warbler (<i>Dendroica petechia</i>), coyote (<i>Canis latrans</i>), kit fox (<i>Vulpes macrotis</i>), blacktail jackrabbit (<i>Lepus californicus</i>), desert cottontail (<i>Sylvilagus auduboni</i>), and mule deer (<i>Odocoileus hemionus</i>). Also included within the ACEC boundary is part of the formerly proposed Critical Habitat of the Andrew's dune scarab beetle which is a candidate species for Federal listing by the US Fish and Wildlife Service.</p> | Fish and Wildlife (incl. special status species) |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <p>Objective: Protect and monitor habitat that supports the Flat-tailed Horned Lizard (special status species).</p> <p>Management Action: Determine the effect of pesticide spraying on the flat-tailed horned lizard and its prey, the harvester ant.</p> <p>Management Action: Participate actively in the Flat Tail Interagency Coordinating Committee to coordinate the management of the flat-tailed horned lizard and its habitat.</p> <p>Management Action: Follow the Flat-Tailed horned Lizard Range-wide Management Strategy</p> <p>Management Action: Monitor wildlife for habitat and population change.</p>                                                                                                                                                                                                                                                                                                                                       |                              |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Protect and monitor cultural resources within the ACEC.</p> <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p> <p>Management Action: Perform route restoration to erase illegal routes.</p> <p>Management Action: Increase compliance with protection of resources in the area.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV Routes.</p> <p>Management Action: Install informative signage and a kiosk to ensure the public is aware of restrictions.</p> <p>Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the cultural resource values present within the ACEC.</p> <p>Management Action: Survey, identify and record new cultural resources within the ACEC boundaries.</p> | Cultural Resources           |
| <p>Objective: Manage the route of travel network to fulfill requirements of the CDCA Plan, as amended including the WECO Plan Amendment.</p> <p>Management Action: Provide signage and maps to the public to inform them of route locations and regulations.</p> <p>Management Action: Increase compliance with protection of resources in the area.</p> <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trails and Travel Management |
| <p>Objective: Provide recreational opportunities that are compatible with the protection of the wildlife, vegetation, and cultural resources.</p> <p>Management Action: Prohibit competitive SRP events that are not compatible</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Recreation                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <p>with the ACEC goals and objectives.</p> <p>Management Action: Increase compliance with routes of travel and the Travel Management Plan.</p> <p>Management Action: Continue to allow and monitor recreational activities (Hunting, target shooting, camping etc.)</p> <p>Management Action: Install informative signage and a kiosk to ensure the public is aware of sensitive wildlife and cultural resource values.</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                 |
| <p>Objective: Consolidate through tenure adjustment.</p> <p>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Land Tenure                                                                     |
| <p>Objective: Protect resource values of the ACEC</p> <p>Management Action: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rights of Way                                                                   |
| <p>Objective: Allow geothermal leasing in portions of the ACEC while mitigating impacts on other important values.</p> <p>Management Action: Permit geothermal leasing as outlined in the Final Environmental Assessment Record East Mesa Non-competitive Leases for the Geothermal Exploration and Development.</p> <p>Management Action: Encourage no surface occupancy.</p> <p>No Solar or Wind Energy projects within the ACEC.<b>Geothermal:</b> ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to new geothermal leasing with an no surface occupancy (NSO) stipulation. Existing leases and their renewal are not affected by the NSO requirement, but amendments and expansions must comply with the NSO requirement.</p> | Renewable Energy                                                                |
| <p>Objective: Prevent impacts to sensitive wildlife values within the ACEC which occur as a result of surface or habitat disturbing activities. Minimize potential impacts resulting from geothermal energy development within the ACEC. Minimize potential impacts from hydrocarbon energy development within the ACEC.</p> <p>Allowable Uses: Geothermal leasing and geothermal energy development. Oil and gas exploration and development.</p> <p>Action: Evaluate mineral material projects for compatibility with purposes of the conservation unit. Make site-specific recommendation for mitigation of oil and gas development when specific Plans of Operations, Development, Utilization, and Abandonment are received.</p>                                                                                                        | <p>Locatable Minerals</p> <p>Mineral Materials</p> <p>Non-energy Leaseables</p> |



### Conservation Footprint

- Legislatively & Legally Protected Areas
- National Conservation Lands

### ACEC Boundaries

- 0.1% Disturbance Cap
- 0.5% Disturbance Cap
- 1% Disturbance Cap

- DRECP Boundary
- CDCA Boundary
- OHV Boundary

### Renewable Footprint

- Development Focus Areas

### Land Status

- Bureau of Land Management
- Department of Defense

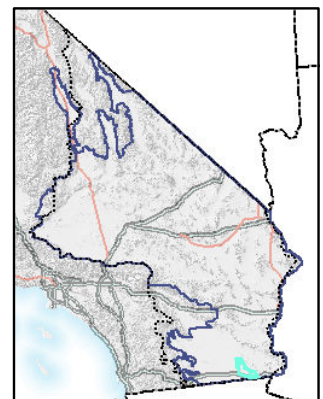
## East Mesa

6/25/2015

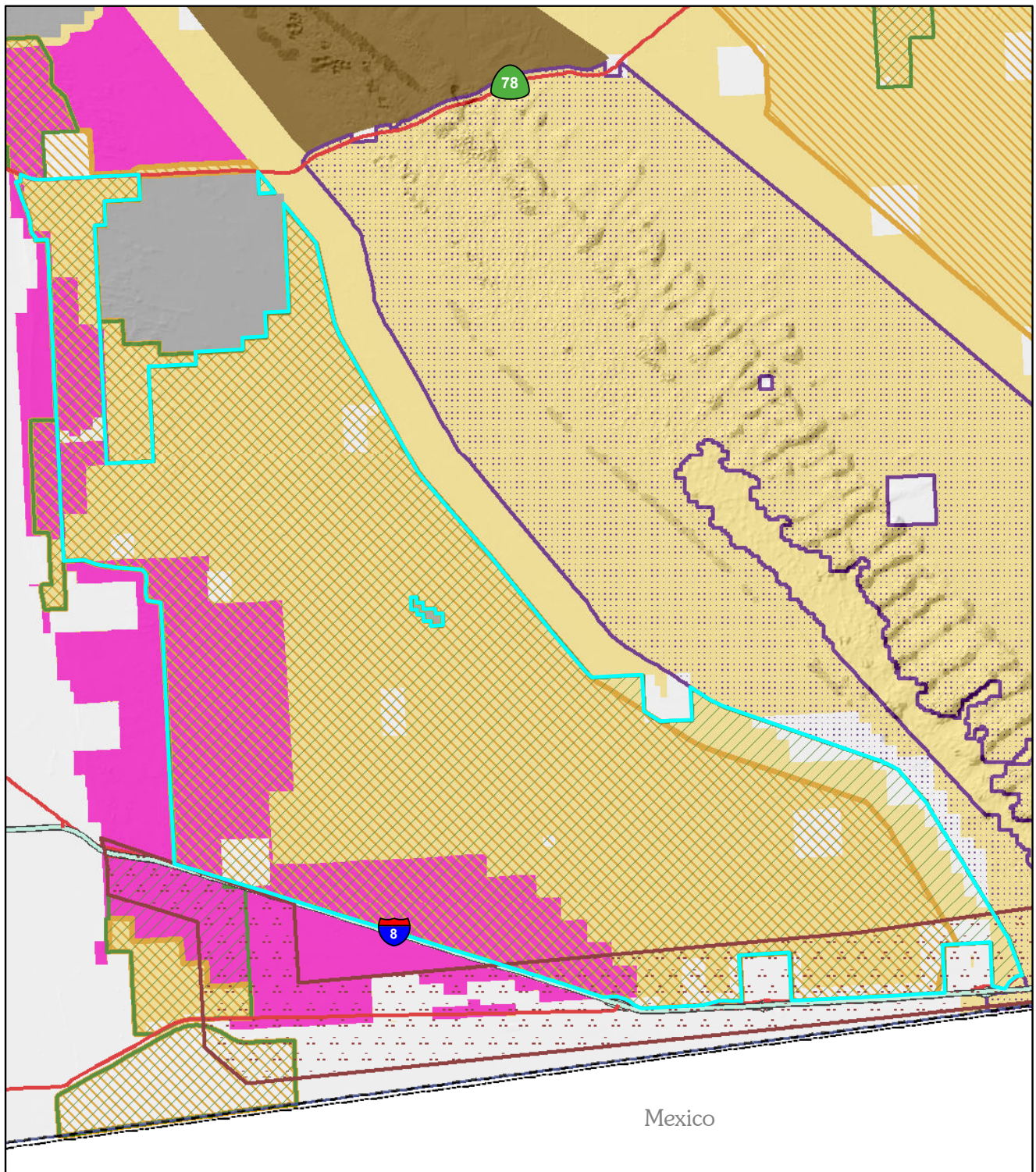


0 1 2  
Miles

Draft Map Boundaries Subject to Change







### Conservation Footprint

-  Legislatively & Legally Protected Areas
-  National Conservation Lands
-  Proposed ACEC

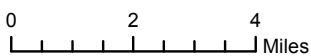
### Renewable Footprint

-  Development Focus Areas

-  DRECP Boundary
-  CDCA Boundary
-  Transmission Corridor
-  OHV Boundary

### Land Status

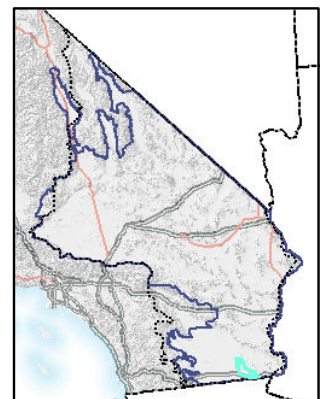
-  Bureau of Land Management
-  Department of Defense



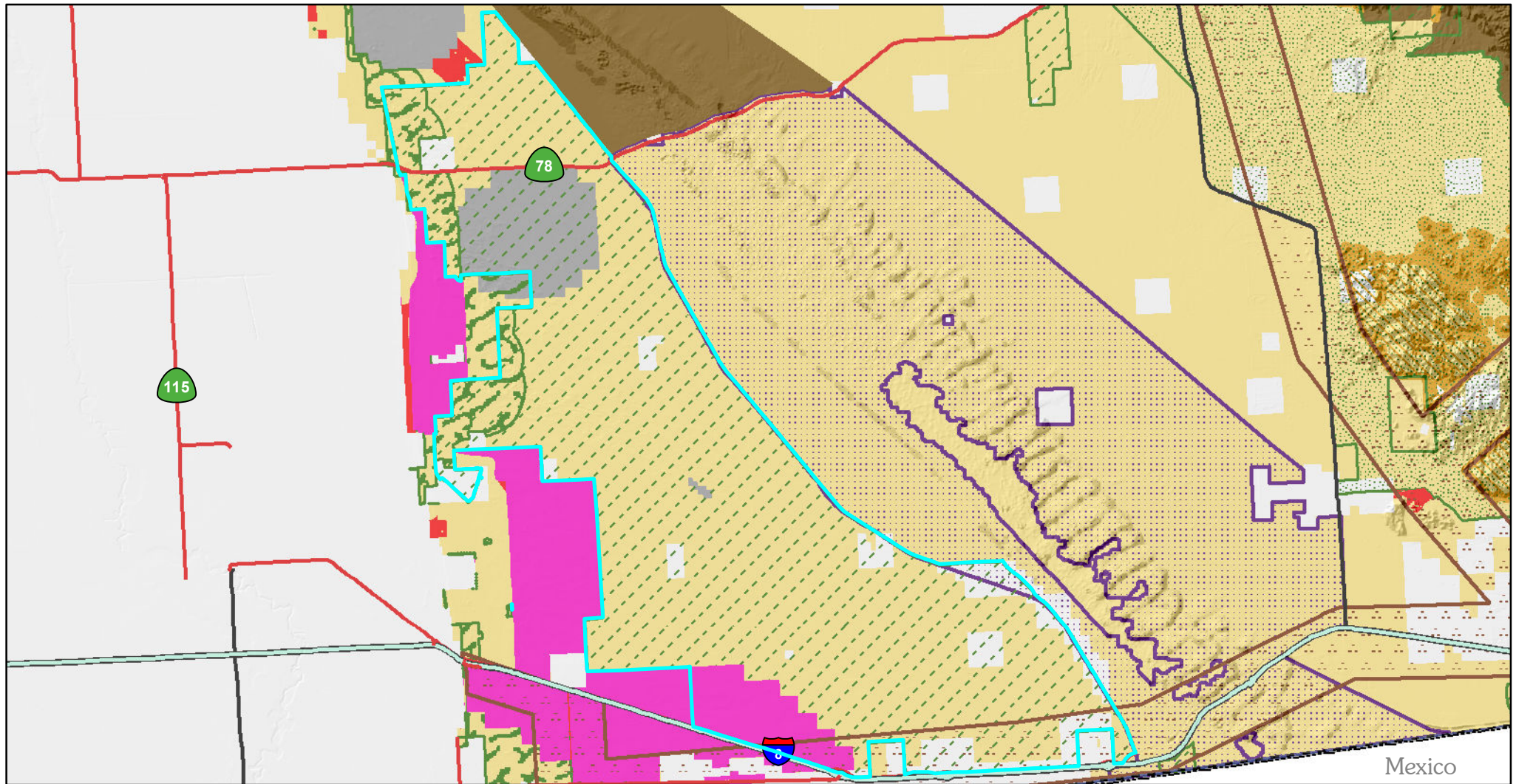
## East Mesa

7/14/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

- Legislatively & Legally Protected Areas
- National Conservation Lands

### ACEC Boundaries

- 0.1% Disturbance Cap
- 1% Disturbance Cap
- Wildlife Allocation

0 2 4  
Miles

- DRECP Boundary
- CDCA Boundary
- Transmission Corridor
- OHV Boundary

### Renewable Footprint

- Development Focus Areas
- Variance Lands

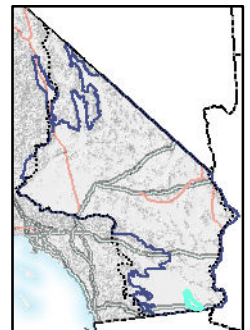
### Land Status

- Bureau of Land Management
- Department of Defense

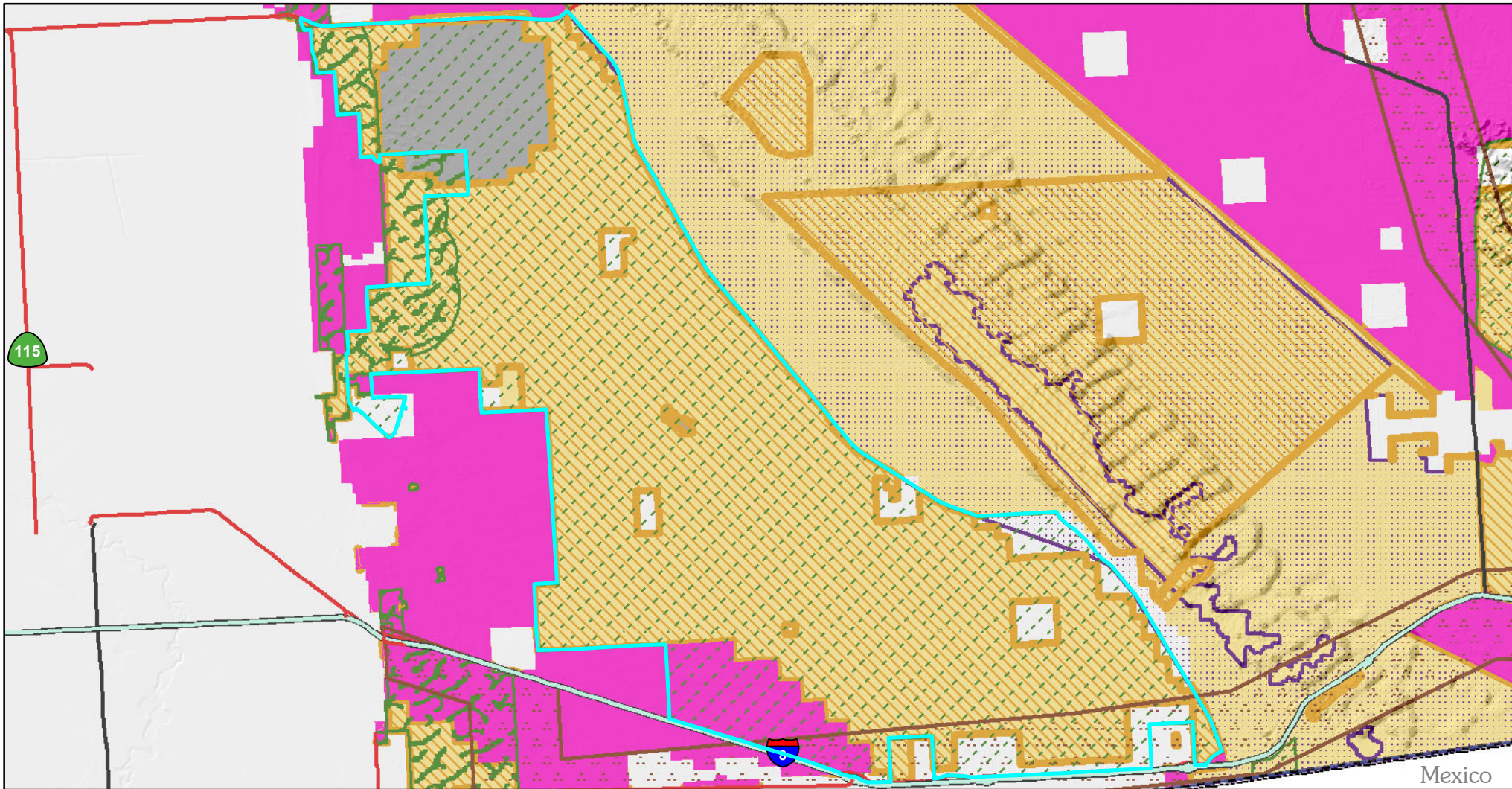
## East Mesa Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

 National Conservation Lands

### ACEC Boundaries

 0.1% Disturbance Cap

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 Transmission Corridor

 OHV Boundary

### Renewable Footprint

 Development Focus Areas

### Land Status

 Bureau of Land Management

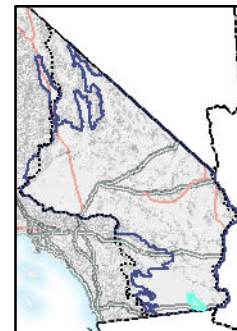
 Department of Defense

## East Mesa Alternative 2

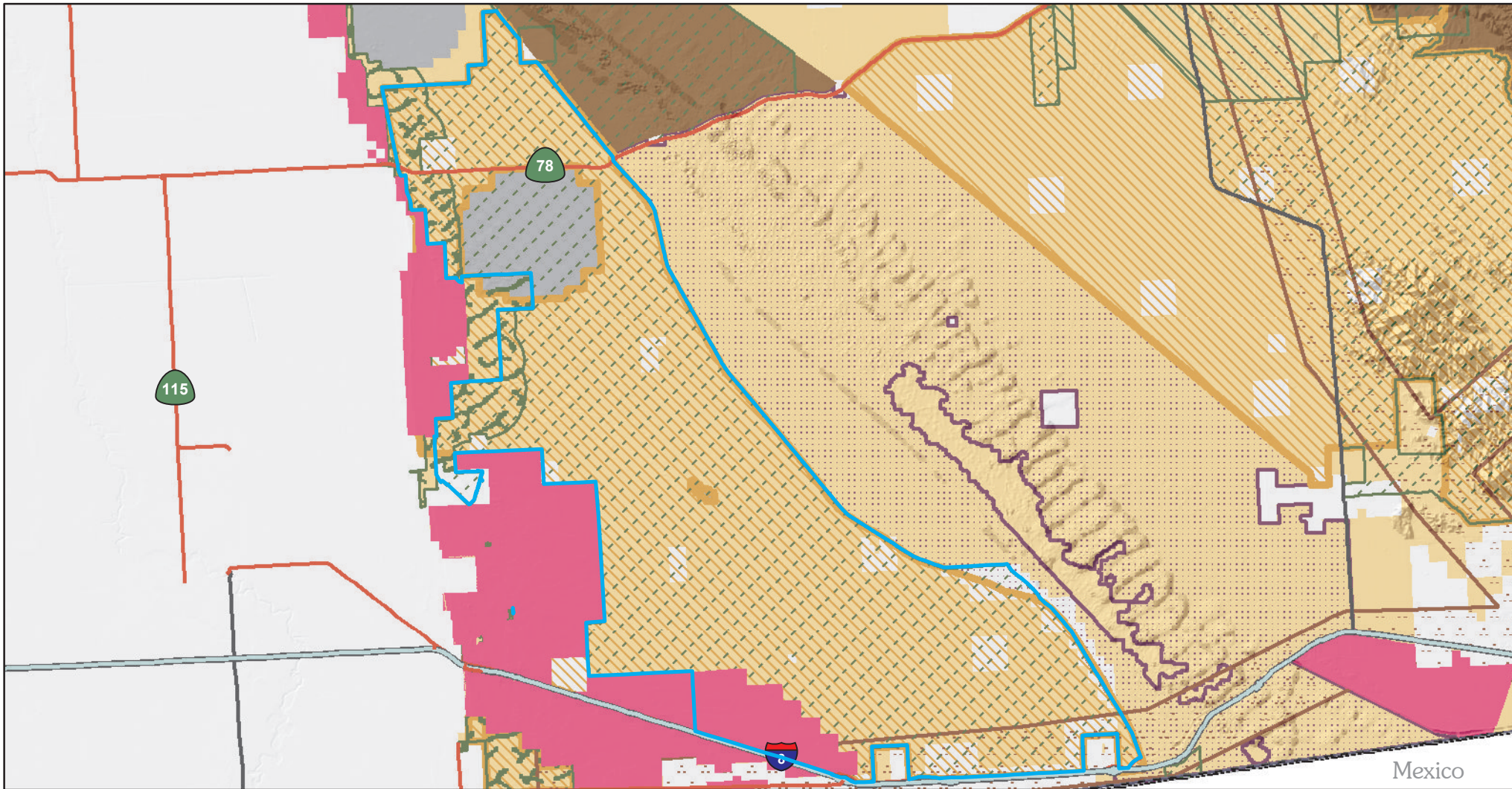
8/26/2015

Draft Map Boundaries Subject to Change

0 1 2  
Miles







## Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

## ACEC Boundaries

0.1% Disturbance Cap

0.5% Disturbance Cap

1% Disturbance Cap

0 2 4 Miles

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

## Renewable Footprint

Development Focus Areas

## Land Status

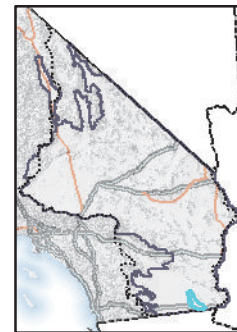
Bureau of Land Management

Department of Defense

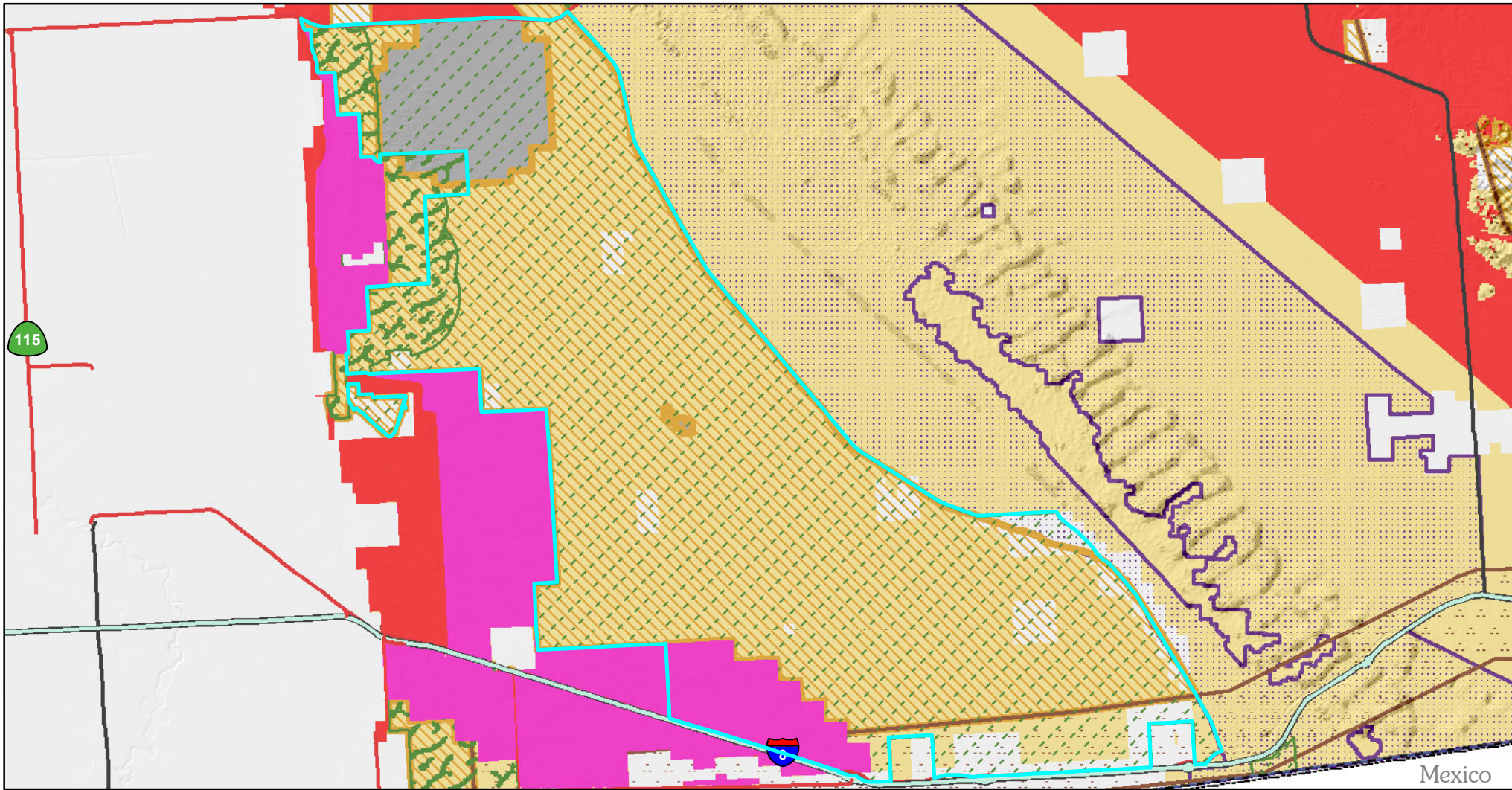
## East Mesa Alternative 3

8/26/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Development Focus Areas

Variance Lands

### Land Status

Bureau of Land Management

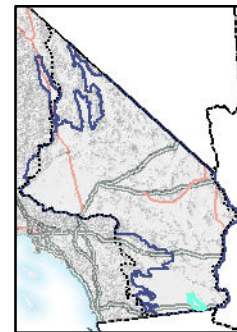
Department of Defense

0 2 4 Miles

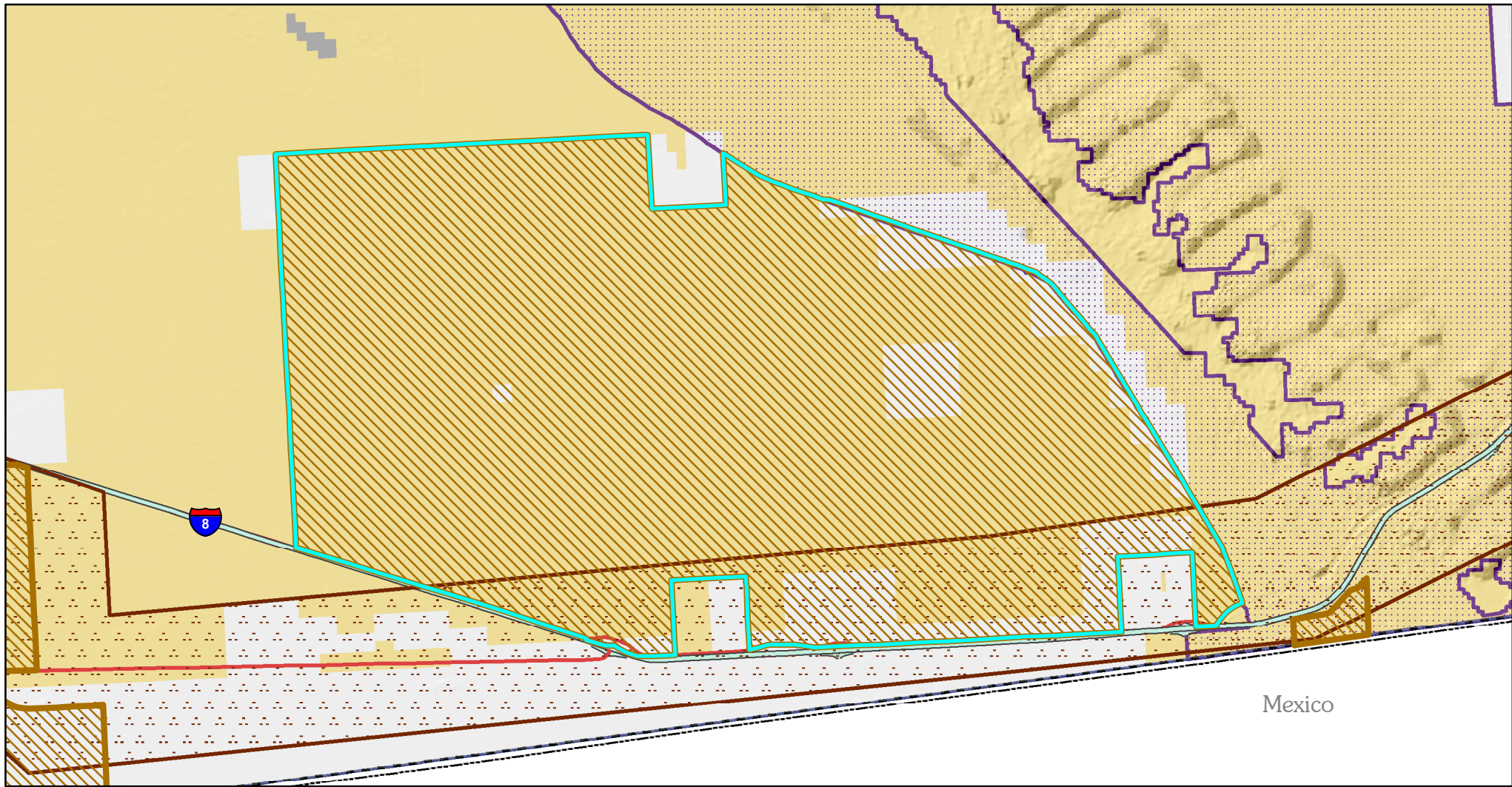
## East Mesa Alternative 4

8/27/2015

Draft Map Boundaries Subject to Change







Conservation Footprint

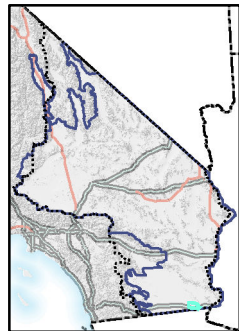
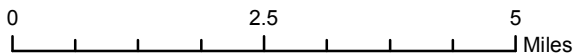
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|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Existing ACEC         | <b>Land Status</b>                                                                                            |
|  Transmission Corridor |  Bureau of Land Management |
|  CDCA Boundary         |  Department of Defense     |
|  DRECP Boundary        |                                                                                                               |
|  OHV Boundary          |                                                                                                               |

East Mesa

No Action

9/15/2015

Draft Map Boundaries Subject to Change



## Indian Pass

**National Conservation Lands Ecoregion:** Colorado Desert and Lake Cahuilla

**Description/Location:** This ACEC is located in the southern Chocolate Mountains. It lies 48 miles northeast of El Centro, California and is within the El Centro BLM Field Office. The Indian Pass ACEC encompasses a major topographic saddle named Indian Pass and is bisected by Gavilan Wash.

### **Nationally Significant Values:**

**Cultural:** Prehistoric archaeological sites eligible for listing in the National Register of Historic Places (NRHP), including rock art, trails systems/segments, and trail shrines, are located within this ACEC. The largest collection of etched designs inscribed onto cobbles in southeast California is contained within this area. These etched cobbles are a particularly unique and rare type of rock art and are considered to be highly significant to the local Native American tribes, including the Quechan Indian Tribe's Area of Traditional Cultural Concern, a traditional cultural property that has been determined eligible for the NRHP.

**Scientific:** The prehistoric archaeological sites located within this unit also contain significant information values that would inform our understanding and knowledge of the past.

**Special Designations/Management Plan/Date:** ACEC Plan 68/1987

### **Relevance and Importance Criteria:**

**Biological:** The Gavilan Wash old growth subtropical woodland is an important stopover for neo-tropical migrant birds along the Colorado River flyway. There are three species of rare plants located within this ACEC. Maintaining and enhancing natural woodland communities and other vegetation and soil conditions may provide additional benefits of carbon sequestration. Some areas within the ACEC provide a combination of meteorological, geological, hydrological, topographical features that have been identified as important climate refugia (slow/minimized climate changes) for wildlife species.

**Overarching Goals:** To protect and preserve the cultural resources located within the ACEC.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.



| Designation and Acreage by Alternative:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |                       |                                                  |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|--------------------------------------------------|----------------------|
| Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation             | ACEC Disturbance Cap |
| No Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                    | 1,900                 | 0                                                | NA                   |
| Preferred Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 391                                                  | 1,900                 | 0                                                | 1%                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100                                                  | 1,900                 | 0                                                | 1%                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,900                                                | 1,900                 | 0                                                | 1%                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 400                                                  | 1,900                 | 0                                                | 1%                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 300                                                  | 1,900                 | 0                                                | 1%                   |
| * Acreage values are for BLM managed lands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                      |                       |                                                  |                      |
| Objectives (desired future condition)/Allowable Uses/Management Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |                       | Resource                                         |                      |
| Objective: Minimize soil disturbance. Preserve existing air quality.<br><br>Management Actions: Coordinate with the Imperial County Air Pollution Control District.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |                       | Soil, water, air                                 |                      |
| The following rare species have been found in this ACEC:<br>Las Animas Columbrina ( <i>Columbrina californica</i> ) (CNPS 2.3)<br>Spiny Abrojo ( <i>Condalia globosa</i> var. <i>pubescens</i> ) (CNPS 4.2)<br>Glandular Ditaxis ( <i>Ditaxis clayana</i> ) (CNPS 2.2)<br>Objective: Maintain robust populations of rare native plants.<br>Management Action: Manage vehicular traffic to stay on designated OHV routes. This will protect the habitat of these species in and near Gavilan Wash.<br><br>Objective: Create a baseline of plant species to track environmental changes.<br>Management Action: Inventory vascular and non-vascular plants, include soil crust species, in the ACEC.<br><br>Objective: Maintain uneven age-distribution of Sonoran Desert subtropical thorn woodland along Gavilan Wash.<br>Management Action: Monitor natural tree revegetation. If small trees are not persisting because of wild burro browse, construct fenced enclosures in areas in need of tree regeneration. |                                                      |                       |                                                  |                      |
| Objective: Maintain wildlife habitat that supports native species including that of special status species; Kit Fox, Burro Mule Deer, Bighorn Sheep.<br>Management Action: Monitor wildlife for habitat and population change. (Wild Horse and Burro Management)<br><br>Objective: Reduce wild burro populations to target herd numbers to maintain vegetation regeneration in the ACEC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      |                       | Fish and Wildlife (incl. special status species) |                      |

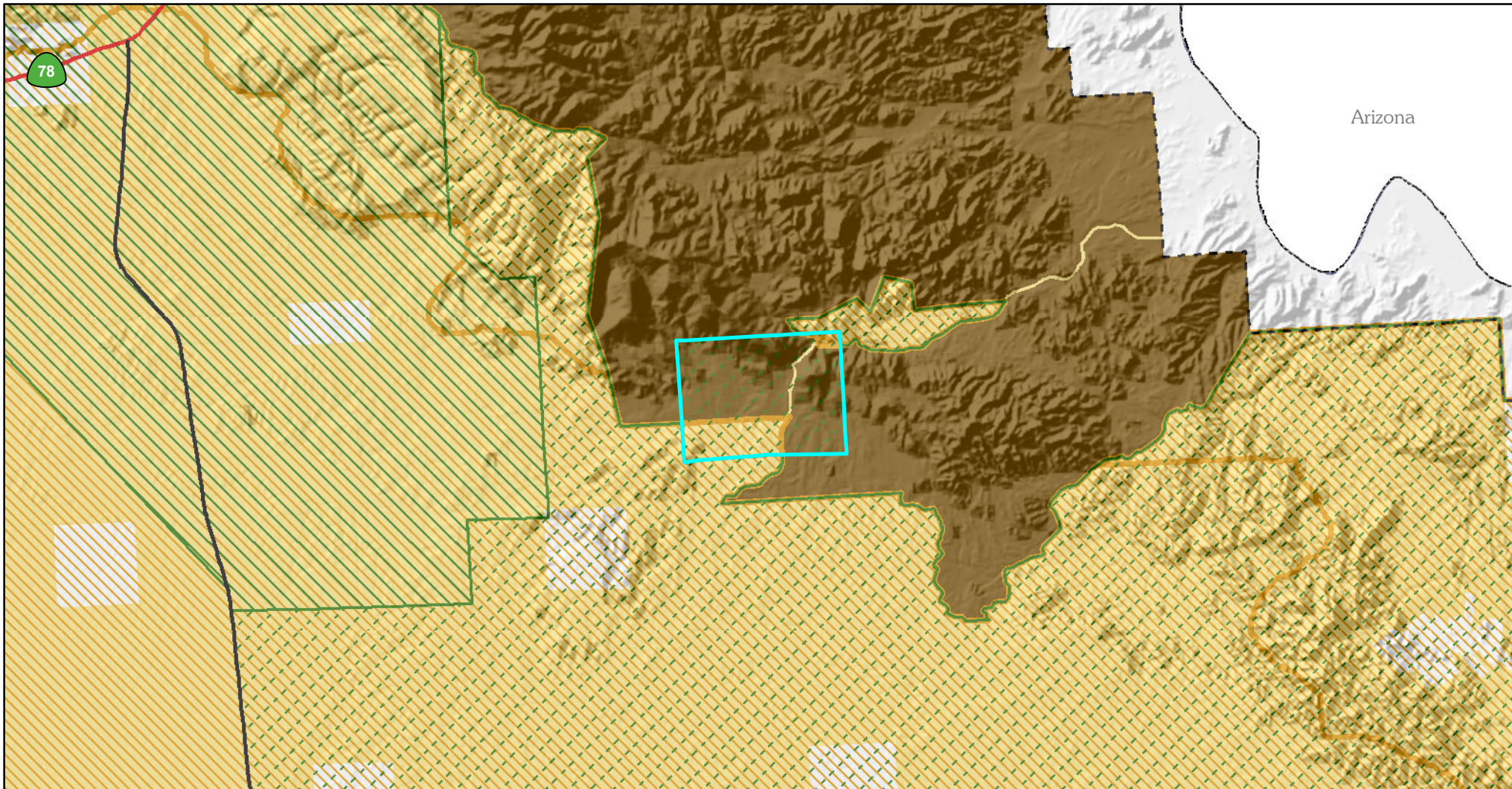
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Management Action: Conduct periodic removal of wild burros.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |
| <p><b>Objective 1:</b> Protect biodiversity and manage for resilience (protect climate refugia and provide for migration corridors).</p> <p>Management Action 1: Prioritize habitat enhancement in areas expected to provide for the greatest level of resiliency (good response or rehabilitation results after significant disturbance such as fire) and or resistance to change (e.g. climate refugia).</p> <p>Management Action 2: Consider actions that enhance the primary productivity of climate refugia with native species restoration, reduced soil surface disturbance, and habitat infrastructure to increase carrying capacity of refugia (e.g., wetland, oasis).</p> <p>Management Action 3: Maintain migration corridor integrity by minimizing obstructions (fences, roads), disturbances (limiting access to water and shade during peak temperatures) and habitat fragmentation.</p> <p><b>Objective 2:</b> Maintain and or enhance key ecosystem processes (e.g., carbon sequestration, water residence time) and prepare and respond to significant disturbances to the environment (e.g. floods).</p> <p>Management Action 1: Develop proactive and responsive management actions for potentially dangerous and damaging disturbances to the environment, which are exacerbated by climate change (e.g. wildfire, flash floods, etc.).</p> <p>Management Action 2: Minimize carbon sequestration losses from management activities by reducing impacts to vegetation, soil structure and soil biota.</p> <p>Management Action 3: Leverage disturbance events and other landscape changes, when possible, as opportunities to assess climate adaptation actions. For example, revegetation objectives for projected climate scenarios benefiting multiple ecosystem services (habitat and carbon sequestration objectives).</p> | Climate Change and Adaptation |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Provide for highest level of protection of cultural resources.</p> <p>Management Action: Increase compliance with cultural resource laws, regulations, and CMAs.</p> <p>Management Action: Nominate the significant sites or districts for listing in the NRHP.</p> <p>Management Action: Install informative signage and kiosks to ensure the public is aware of restrictions.</p> <p>Management Action: Consult with local Indian tribes and knowledgeable</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cultural Resources            |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <p>traditional practitioners regarding the cultural resource values present within the ACEC.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV Routes.</p> <p>Objective: Fully document and record the known archaeological sites as well as any new sites that may exist within the ACEC.</p> <p>Management Action: Work with local archaeological organizations and institutions to develop partnerships to enable proactive survey and recordation.</p> <p>Management Action: Apply for grant or other funding to pay for contracting.</p> |                              |
| <p>Objective: Manage routes to fulfill requirements of the original CDCA Plan and the NECO Plan Amendment.</p> <p>Management Action: Continue to coordinate with the Imperial County's Public Works Department and ensure their knowledge of the ACEC's sensitivity so that special care is taken while grading along Indian Pass Road.</p> <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p>                                                                                                                    | Trails and Travel Management |
| <p>Objective: Allow compatible recreational activities that can be accommodated while preserving and protecting cultural resources.</p> <p>Allowable Uses: Hunting, hiking, 4X4 touring on designated routes.</p> <p>Objective: Prohibit the commercial or recreational collection of rocks, gemstones, fossils, and minerals within the ACEC.</p> <p>Management Action: Install and update kiosks and signage around the boundaries of the ACEC to inform the public of its closure to rock collecting.</p>                                                             | Recreation                   |
| <p>Objective: Consolidate through tenure adjustment.</p> <p>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.</p>                                                                                                                                                                                                                                                                                                                                                                                                            | Land Tenure                  |
| <p>Objective: Protect resource values of the ACEC</p> <p>Management Action: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.</p>                                                                                                                                                                                                                                                                                                    | Rights of Way                |
| <p>No development</p> <p>Objective: Maintain integrity of large blocks of habitat</p> <p>Allowable Uses: Not an allowable use. Renewable energy development is not compatible with NLCS and ACEC unit values and criteria</p> <p>Geothermal: ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation.</p>                                                                                                                | Renewable Energy             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <p>Objective: Limit formal mineral exploration.</p> <p>Management Actions: In 2000 a twenty year Indian Pass mineral Withdrawal was authorized by the Secretary which prevents development of existing claims within the Withdrawal. The northern section of this Withdrawal encompasses portions of the Indian Pass ACEC but not in its entirety.</p> <p>Objective: Prohibit the commercial or recreational collection of rocks, gemstones, fossils, and minerals within the ACEC.</p> <p>Management Action: Install and update kiosks and signage around the boundaries of the ACEC to inform the public of its closure to rock collecting.</p> <p>Allowable Uses: There are existing mining claims within portions of the Indian Pass ACEC. New mineral entry for locatable minerals is currently restricted in portions of the ACEC which are covered by the Indian Pass Withdrawal. The Withdrawal, which terminates in 2020, prevents development of existing claims. Portions of the ACEC may be leased for oil and gas, although interests for these are negligible.</p> | <p>Locatable Minerals<br/>Mineral Materials<br/>Non-Energy Leasables</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|





### Conservation Footprint

- |                                                                                                                           |                                                                                                    |                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Legislatively & Legally Protected Areas |  DRECP Boundary | Land Status                                                                                                   |
|  National Conservation Lands             |  CDCA Boundary  |  Bureau of Land Management |

### ACEC Boundaries

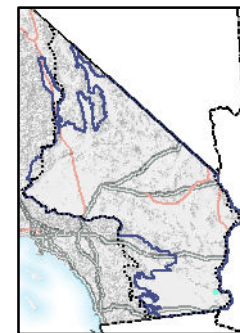
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|  0.5% Disturbance Cap |
|  1% Disturbance Cap   |

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Miles

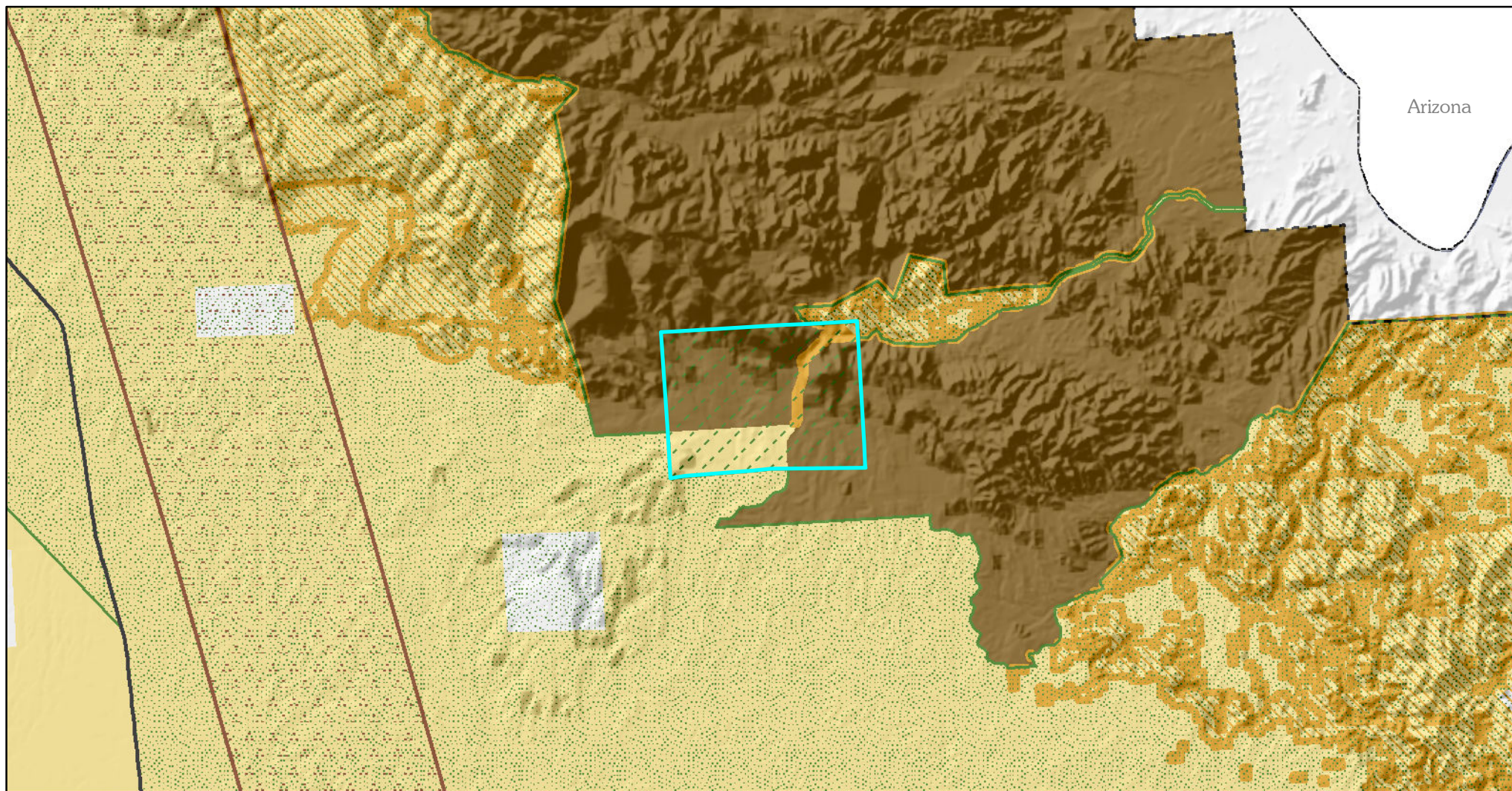
### Indian Pass

6/24/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

- Legislatively & Legally Protected Areas
- National Conservation Lands

### ACEC Boundaries

- 1% Disturbance Cap
- Wildlife Allocation

- DRECP Boundary
- CDCA Boundary
- Transmission Corridor

### Land Status

- Bureau of Land Management

0 1 2 Miles

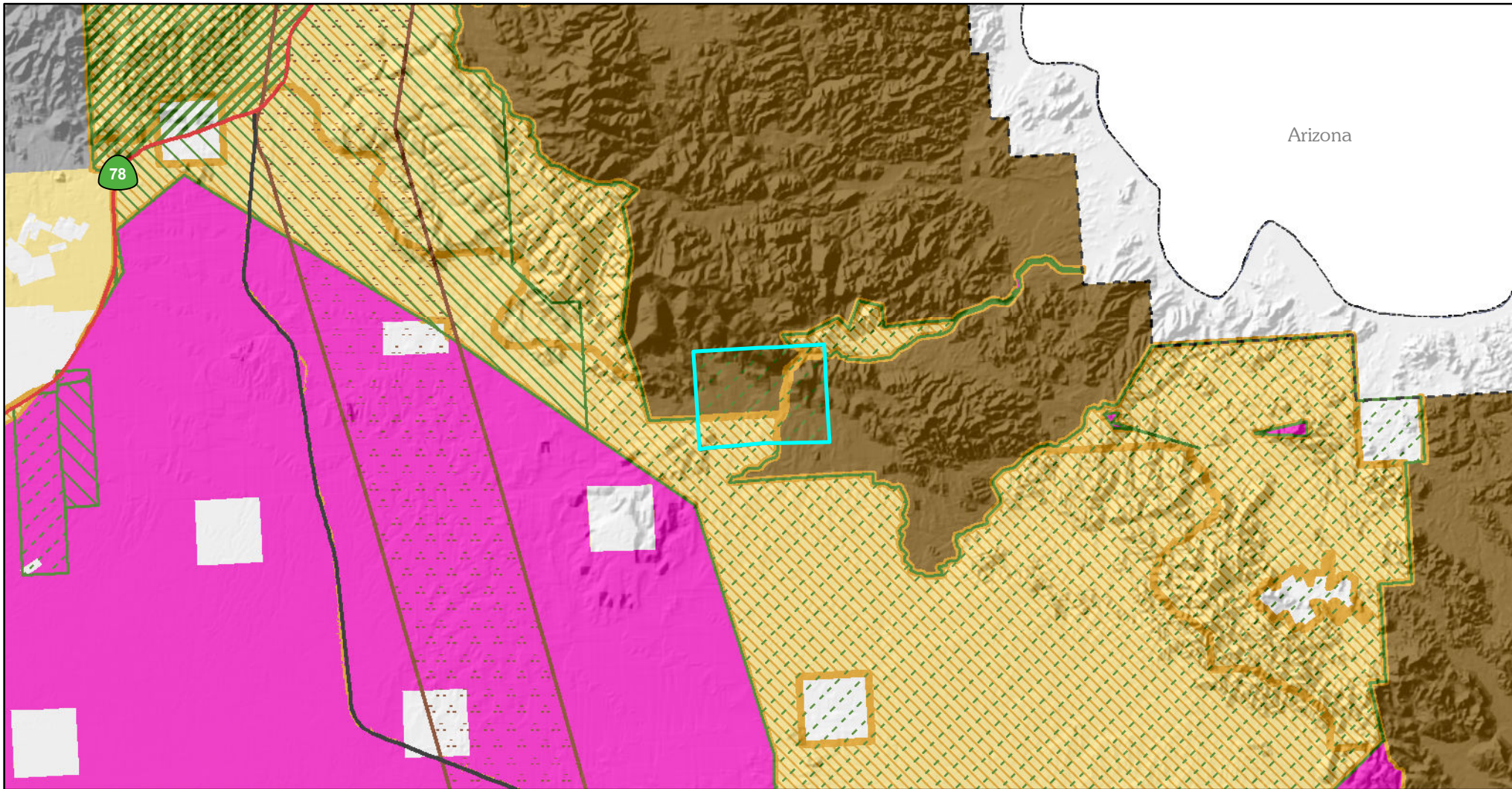
## Indian Pass Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







Arizona

## Conservation Footprint

 Legislatively & Legally Protected Areas

 National Conservation Lands

## ACEC Boundaries

 0.25% Disturbance Cap

 0.5% Disturbance Cap

 1% Disturbance Cap

0 1 2  
Miles

 DRECP Boundary

 CDCA Boundary

 Transmission Corridor

## Renewable Footprint

 Development Focus Areas

## Land Status

 Bureau of Land Management

 Department of Defense

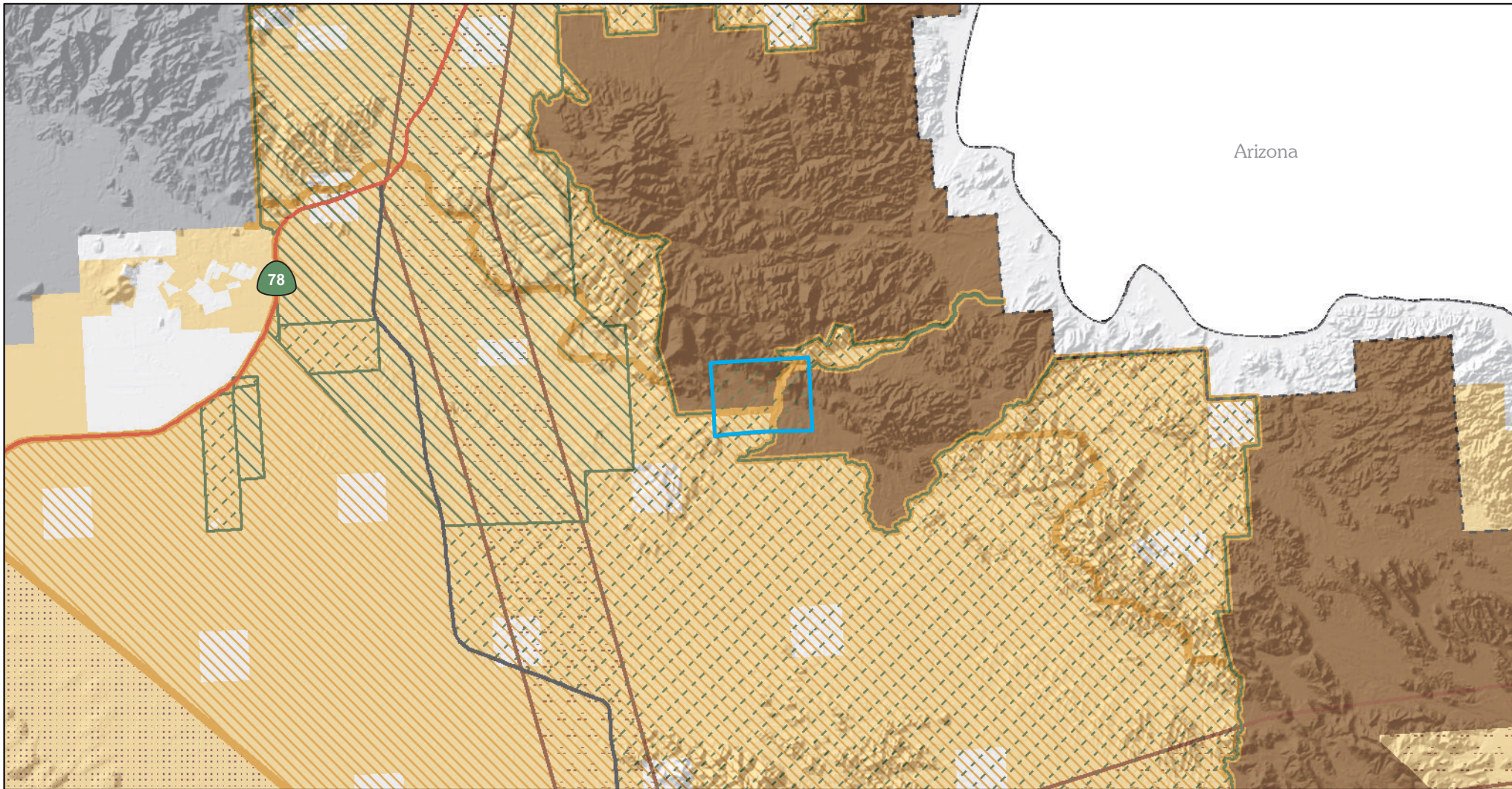
## Indian Pass Alternative 2

8/26/2015

Draft Map Boundaries Subject to Change







Arizona

78

### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.5% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

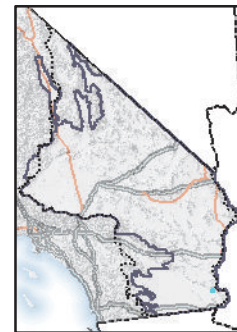
Bureau of Land Management

Department of Defense

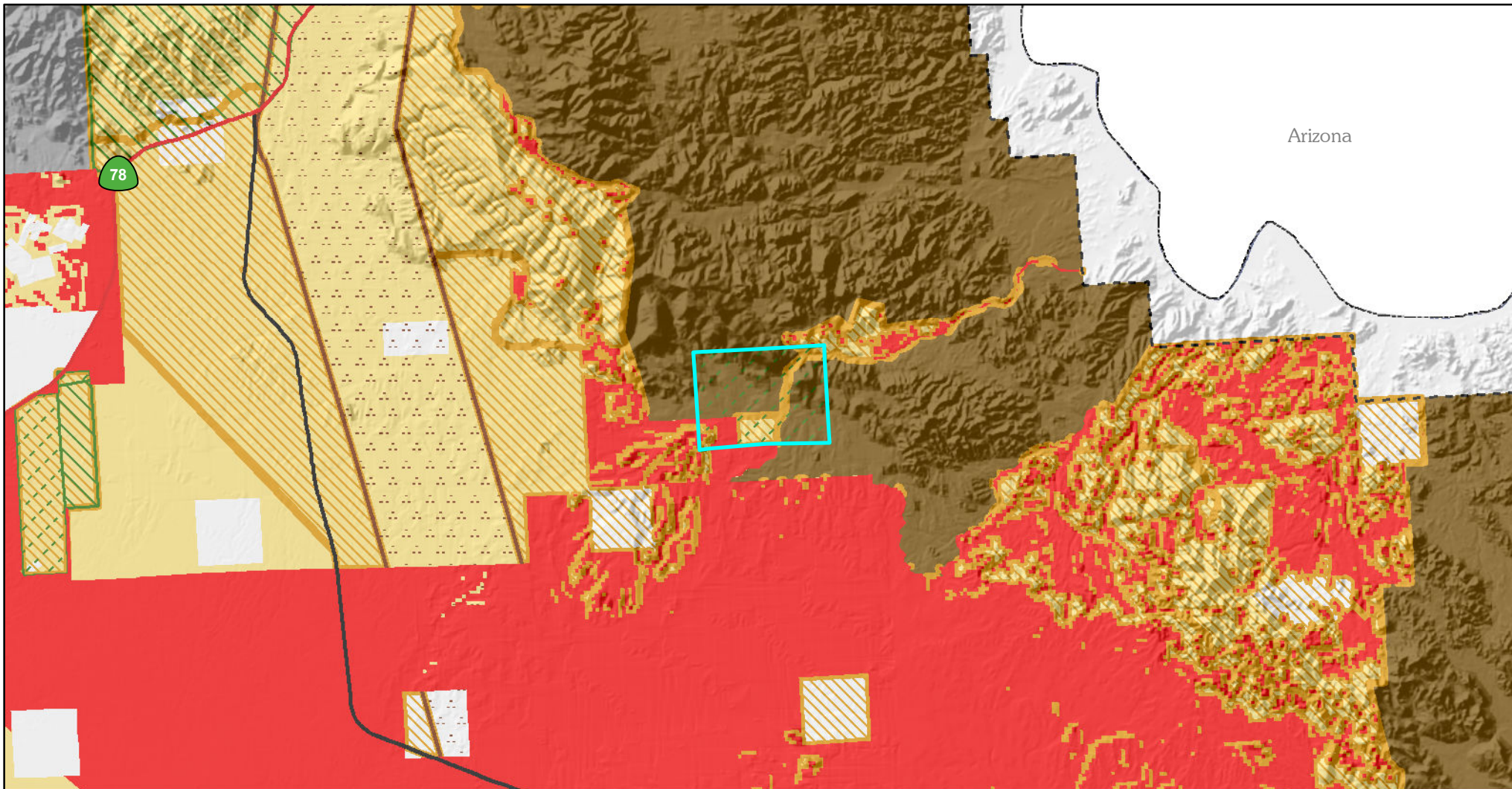
## Indian Pass Alternative 3

8/26/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

-  National Conservation Lands
-  Legislatively & Legally Protected Areas

### ACEC Boundaries

-  0.5% Disturbance Cap
-  1% Disturbance Cap

-  DRECP Boundary
-  CDCA Boundary
-  Transmission Corridor

### Renewable Footprint

-  Development Focus Areas
-  Variance Lands

### Land Status

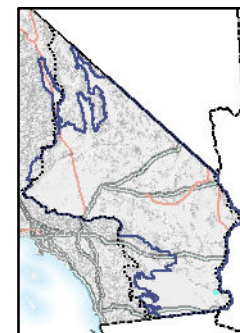
-  Bureau of Land Management
-  Department of Defense

0 1 2  
Miles

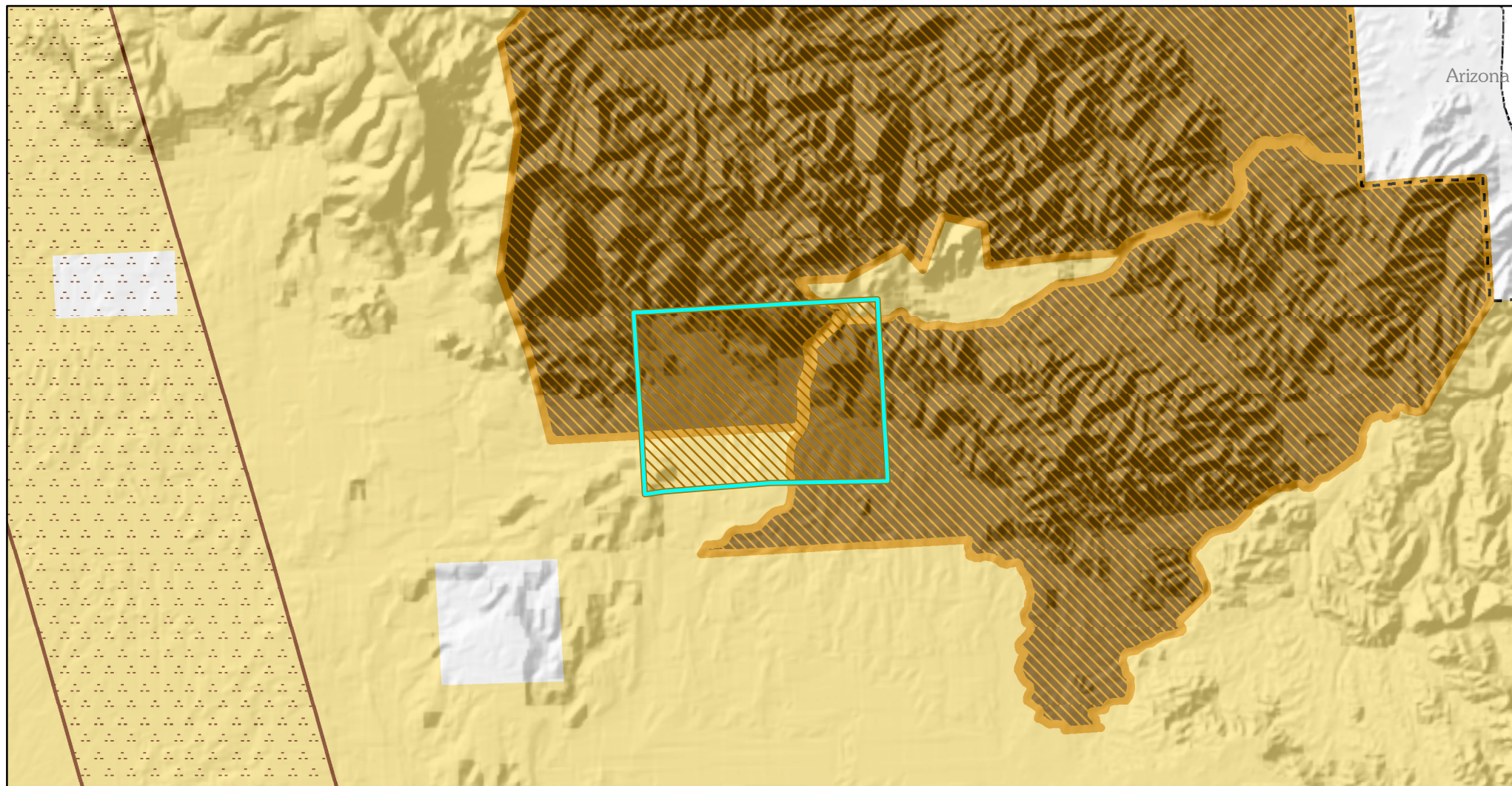
## Indian Pass Alternative 4

8/27/2015

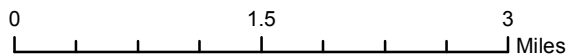
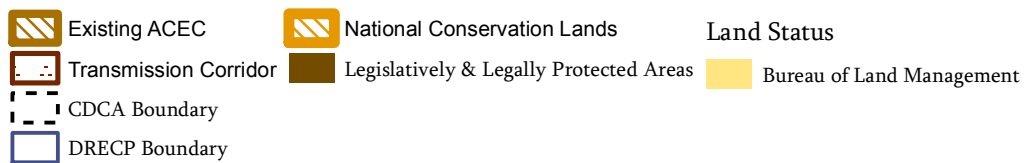
Draft Map Boundaries Subject to Change







### Conservation Footprint

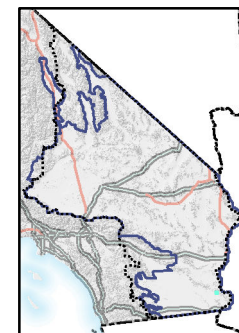


### Indian Pass

### No Action

9/15/2015

Draft Map Boundaries Subject to Change





## Lake Cahuilla

### National Conservation Lands Ecoregion: Lake Cahuilla

**Description/Location:** Located about 18 miles east of El Centro, California, the existing Lake Cahuilla ACEC and proposed conservation lands lie in south central Imperial Valley between farm lands and the Imperial Sand Dunes. ACEC 71 lies against the International Border and the All-American Canal. ACEC 69 also lies adjacent to the canal and is contiguous with Interstate 8. ACEC 65 begins adjacent to the Holtville Airport and parallels the East Highline Canal. ACEC 66 covers a segment of an interior shoreline and lies one mile east of ACEC 65. The proposed conservation lands would connect these units of the existing ACEC and the proposed East Mesa conservation lands.

### Nationally Significant Values:

**Cultural:** Rare and unique archaeological values exist within the proposed conservation lands and the existing ACEC. These lands include several large archaeological sites that contain dense accumulations of ceramics, hearths, stone tools, and features that are associated with the shoreline of ancient Lake Cahuilla which has repeatedly in-filled over the last thousand years. These sites contain evidence of habitation, food preparation, early trade, lake-shore adaption and socio-religious practices, giving us insight into prehistoric human behavior. Areas and landmarks of traditional religious and spiritual concern to Native Americans are located in and visible from the ACEC. Prehistoric archaeological sites listed in and eligible for listing in the NRHP are located within this ACEC.

**Scientific:** Prehistoric archaeological sites with scientific information potential that make them eligible for listing in the NRHP are located within this ACEC. This ACEC also contains significant paleontological resources.

ACEC #69,71 – contains portions of frontal beach with irregular shore shape and provides an opportunity to manage and examine shoreline versus non-shoreline prehistoric sites.

ACEC #66 – covers large portion of one East Mesa embayment shoreline. Microhabitats provided Native Americans with different and abundant food gathering opportunities

**Special Designations/Management Plan/Date:** ACEC #65, 66, 69 and 71/ 1984

Note: this is an aggregate plan for all 4 units of this ACEC.

### Relevance and Importance Criteria:

The Lake Cahuilla ACEC contains cultural resources which require special management attention. Sensitive archaeological sites are potentially endangered from uncontrolled sand and gravel removal, off-road vehicle use, and other forms of activity.

Archaeological values within each ACEC are rare and unique in character. The ecological environment of Lake Cahuilla was not duplicated elsewhere in the California Desert. In fact, the circumstances which led to repeated fillings of Lake Cahuilla may not exist elsewhere in the world. Consequently, Lake Cahuilla archaeology provides us with a rare glimpse into prehistoric human behavior which can contribute to our knowledge of our varied cultural heritage.

**Recreation Area:** This unit overlaps with the Hot Springs LTVA SRMA.

**Overarching Goals:** Protect and enhance cultural and paleontological values while complying with existing legislation and BLM policies. Provide for compatible uses.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

**Designation and Acreage by Alternative:**

| Alternative**         | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation | ACEC Disturbance Cap |
|-----------------------|------------------------------------------------------|-----------------------|--------------------------------------|----------------------|
| No Action             | 0                                                    | 14,000                | 0                                    | NA                   |
| Preferred Alternative | 5,285                                                | 8,615                 | 0                                    | None                 |
| 1                     | 0                                                    | 35,800                | 0                                    | 0.10%                |
| 2                     | 33,800                                               | 33,800                | 0                                    | 0.10%                |
| 3                     | 16,700                                               | 35,600                | 0                                    | 0.10%                |
| 4                     | 12,400                                               | 29,200                | 0                                    | 0.10%                |

\* Acreage values are for BLM managed lands

\*\*\*\* Acreage in Alternatives 1, 2, 3, 4 reflect this existing ACEC having a proposed expansion in the Draft EIS. The proposed expansion is now proposed as a separate ACEC, the Shoreline ACEC, and the acreage is no longer a part of the existing Lake Cahuilla ACEC acreage for the Final Preferred Alternative.

| Objectives (desired future condition)/Allowable Uses/Management Actions                                                                                                                                                                                                                                                                                                                                                                 | Resource                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Objective: Minimize soil disturbance. Preserve existing air quality.<br>Management Actions: Coordinate with the Imperial County Air Pollution Control District to maintain air quality.                                                                                                                                                                                                                                                 | Soil, water, air                          |
| The Lake Cahuilla ACEC lies largely within a Creosote bush scrub plant community. Major plant species in the area include creosote ( <i>Larrea tridentata</i> ), Mormon tea ( <i>Ephedra trifurca</i> ), and saltbush ( <i>Atriplex canescens</i> ). The area is also dotted with small numbers of honey mesquite dunes ( <i>Prosopis gland ulosa</i> ). BLM Special Status Plants include Sand food and the Algodones Dunes sunflower. | Vegetation (incl. special status species) |

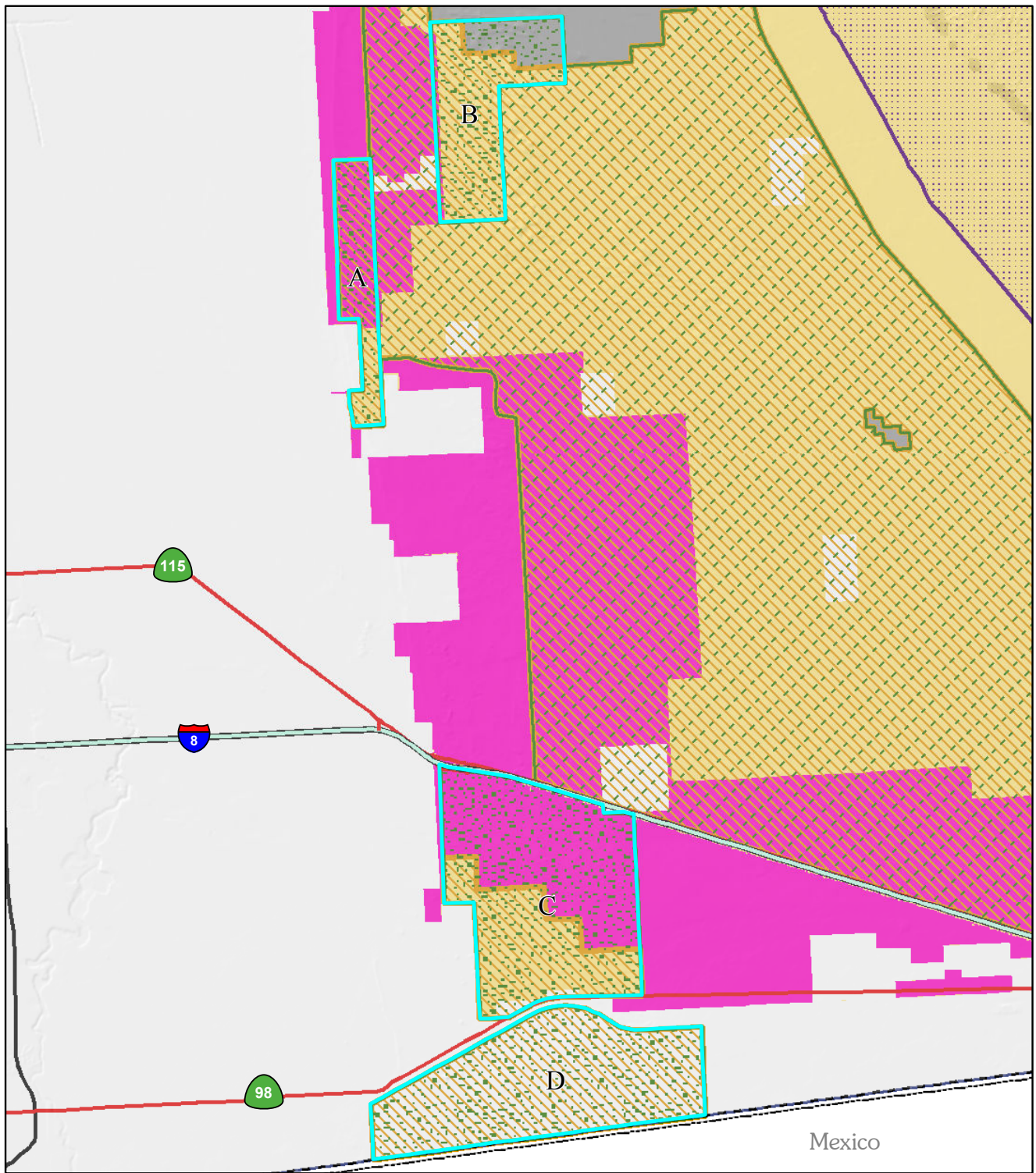


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <p>Objective: Protect and enhance robust populations of both rare and common native plants.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV routes.</p> <p>Management Action: Place signs, kiosks and interpretive information at key recreational sites to better inform the public about the important plant resources.</p> <p>Management Action: Eradicate and control the spread of invasive and noxious weeds.</p> <p>Objective: Update a baseline of plant species to track environmental changes.</p> <p>Management Action: Inventory vascular and non-vascular plants, include soil crust species, in the ACEC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |
| <p>The Lake Cahuilla ACEC contains three primary habitat types: creosote bush scrub, mesquite dunes, and canal-created riparian zones. Wildlife diversity is greatest in the artificial riparian areas. The primary species of special management concern are the state and Federally listed endangered Yuma clapper rail and the California black rail. The latter species is State listed and a candidate for Federal listing. These species have been reported in canal side vegetation adjacent to ACEC 71. The flat-tailed horned lizard, a candidate for Federal listing, likely occurs in the ACEC. Additionally, seven bird species included on the 1982 Audubon Society Blue List of diminishing species occur or potentially occur within the Lake Cahuilla ACEC. These include the sharp-shinned hawk, marsh hawk, Swainson's hawk, long-billed curlew, Bewick's wren, loggerhead shrike, and yellow warbler.</p> <p>Objective: Maintain wildlife habitat that supports native species including that of special status species.</p> <p>Management Action: Monitor wildlife for habitat and population change.</p> <p>Within the flat-tailed horned lizard Management Area, follow the Range-wide Management Strategy.</p> | <p>Fish and Wildlife (incl. special status species)</p> |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Protect and preserve cultural resources within and visible from the ACEC.</p> <p>Management Action: Develop interpretive programs and brochures that explain Lake Cahuilla cultural resources.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV Routes.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV Routes.</p> <p>Management Action: Perform route restoration on unauthorized routes.</p> <p>Management Action: Increase compliance with cultural resource laws, regulations, and CMAS</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Cultural Resources</p>                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <p>Management Action: Nominate the district for listing in the NRHP.</p> <p>Management Action: Install informative signage and kiosks to ensure the public is aware of restrictions as well as provide interpretation about ancient Lake Cahuilla.</p> <p>Objective: Expand our understanding of the nature, variety, and complexity of cultural resources within the Lake Cahuilla ACEC.</p> <p>Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the cultural resource values present within the ACEC.</p> <p>Management Action: Work with local archaeological organizations and institutions to develop partnerships to enable proactive survey and recordation.</p> <p>Management Action: Apply for grant or other funding to pay for contracting.</p>                                                                                                            |                              |
| <p>Objective: Ensure the general management and protection of paleontological resources within the ACEC.</p> <p>Management Action: Manage and protect fossil resources consistent with the Paleontological Resources Preservation Act and the Omnibus Act.</p> <p>Management Action: Develop plans and cooperative agreements to increase the inventory and scientific and educational use of paleontological resources.</p> <p>Management Action: Prohibit casual collection of vertebrate fossils without a permit.</p> <p>Management Action: Increase compliance with protection of resources in the area.</p> <p>Management Action: Install informative signage and kiosks to ensure the public is aware of restrictions as well as provide general education about the unique and important resources.</p> <p>Management Action: Develop interpretive programs and brochures that explain Lake Cahuilla paleontology.</p> | Paleontology                 |
| <p>Objective: Manage the route of travel network to fulfill requirements of the original CDCA Plan and the WECO Plan Amendment.</p> <p>Management Action: Provide signage and maps to the public to inform them of route locations and regulations.</p> <p>Management Action: Increase compliance and other BLM personnel visits to the area.</p> <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Trails and Travel Management |
| <p>Objective: Protect archaeological sites from physical degradation.</p> <p>Management Action: Prohibit camping except in sand and gravel pits and within 300' of center line feet of approved routes of travel, as per the WECO plan. Continue to monitor existing recreational opportunities (hunting, target shooting etc.).</p> <p>Management Action: Increase patrols and other BLM personnel visits to the area.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Recreation                   |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Management Action: Provide signage and maps to the public to inform them of route locations and regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                 |
| Avoid impacts to resource values.<br>Limit linear ROWs to designated transmission corridors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rights of Way                                                   |
| No development<br>Objective: Maintain integrity of large blocks of habitat<br>Allowable Uses: Not an allowable use. Renewable energy development is not compatible with NLCS and ACEC unit values and criteria, except as identified below<br>Geothermal: ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation with the exception of existing and approved leases.                                            | Renewable Energy                                                |
| Objective: Permit economic resource development in a way to maximize value without jeopardizing cultural resources.<br><br>Allowable uses: Oil and gas and geothermal exploration with stipulations. Mining activities would be allowed with appropriate analysis and mitigation.<br>Management Action: Prohibit extraction of mineral materials (sand and gravel) and petrified wood from ACEC 65, 69 and 71. East Mesa beachline has long been the site for sand and gravel extraction. Historic operations are allowed to continue.<br>Limited material sales | Locatable Minerals<br>Mineral Materials<br>Non-Energy Leasables |
| East Highline Sand and Gravel Activity Management Plan<br>Part of first form withdrawal by Bureau of Reclamation<br>East Mesa Known Geothermal Resource Area occupies portions of ACEC 69<br>Parts of ACEC 65 lie within the East Brawley KGRA                                                                                                                                                                                                                                                                                                                   | Overlapping Land Designations                                   |



### Conservation Footprint

- National Conservation Lands
- ACEC Boundaries**
- 1% Disturbance Cap
- ACEC, Disturbance Cap

- DRECP Boundary
- CDCA Boundary
- OHV Boundary

### Renewable Footprint

- Development Focus Areas

### Land Status

- Bureau of Land Management
- Department of Defense

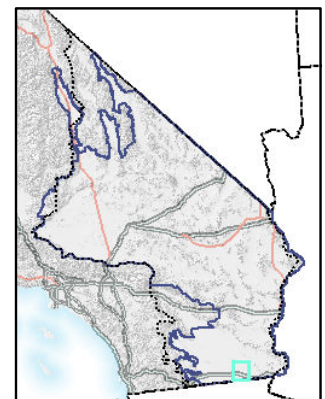
## Lake Cahuilla

8/13/2015

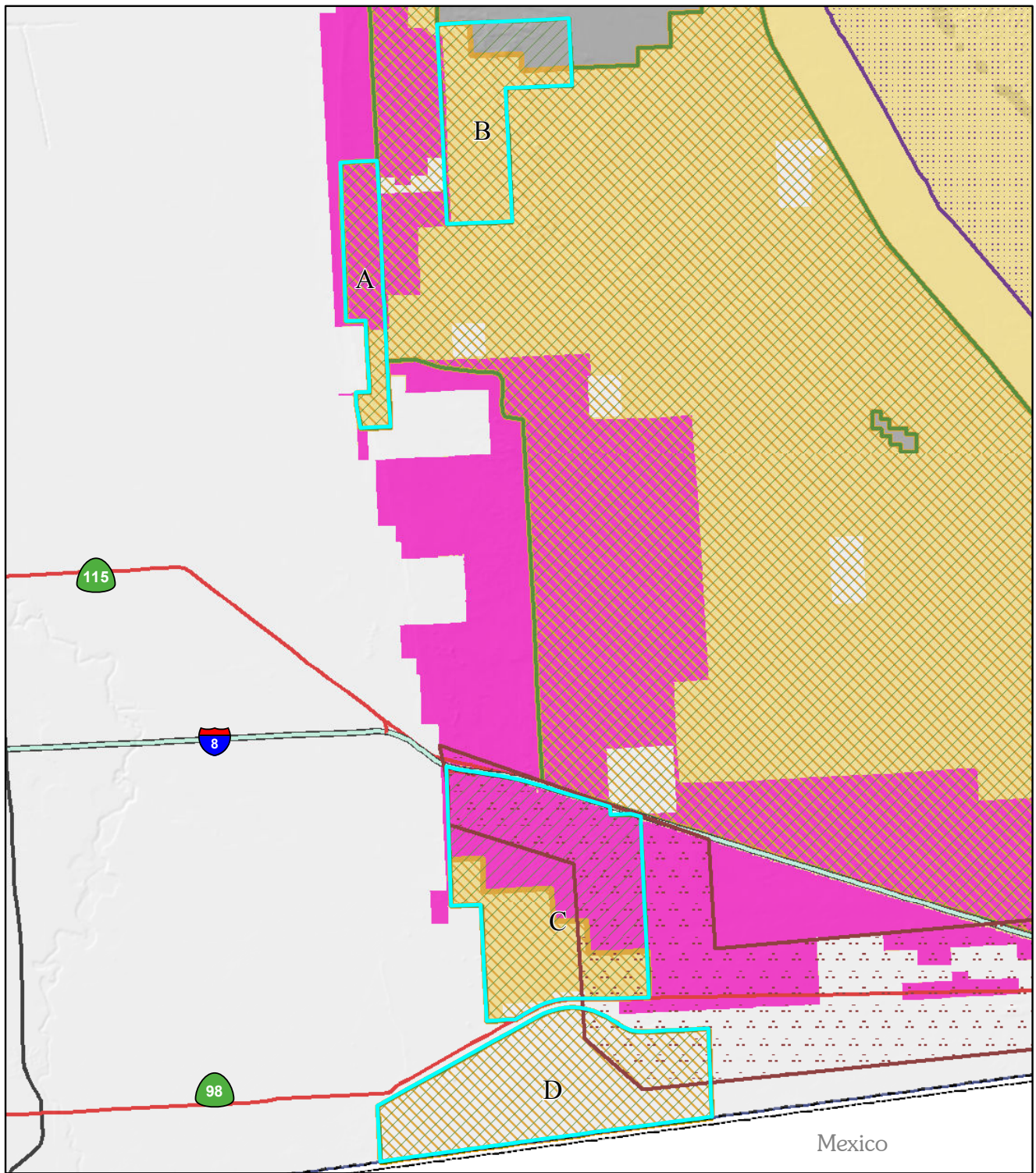


0 1 2  
Miles

Draft Map Boundaries Subject to Change







### Conservation Footprint

- National Conservation Lands
- Proposed ACEC

### Renewable Footprint

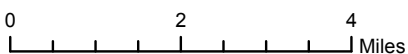
- Development Focus Areas

- DRECP Boundary
- CDCA Boundary

- Transmission Corridor
- OHV Boundary

### Land Status

- Bureau of Land Management
- Department of Defense

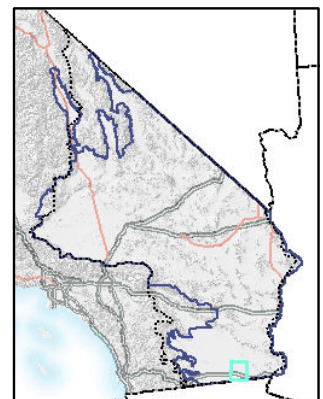


## Lake Cahuilla

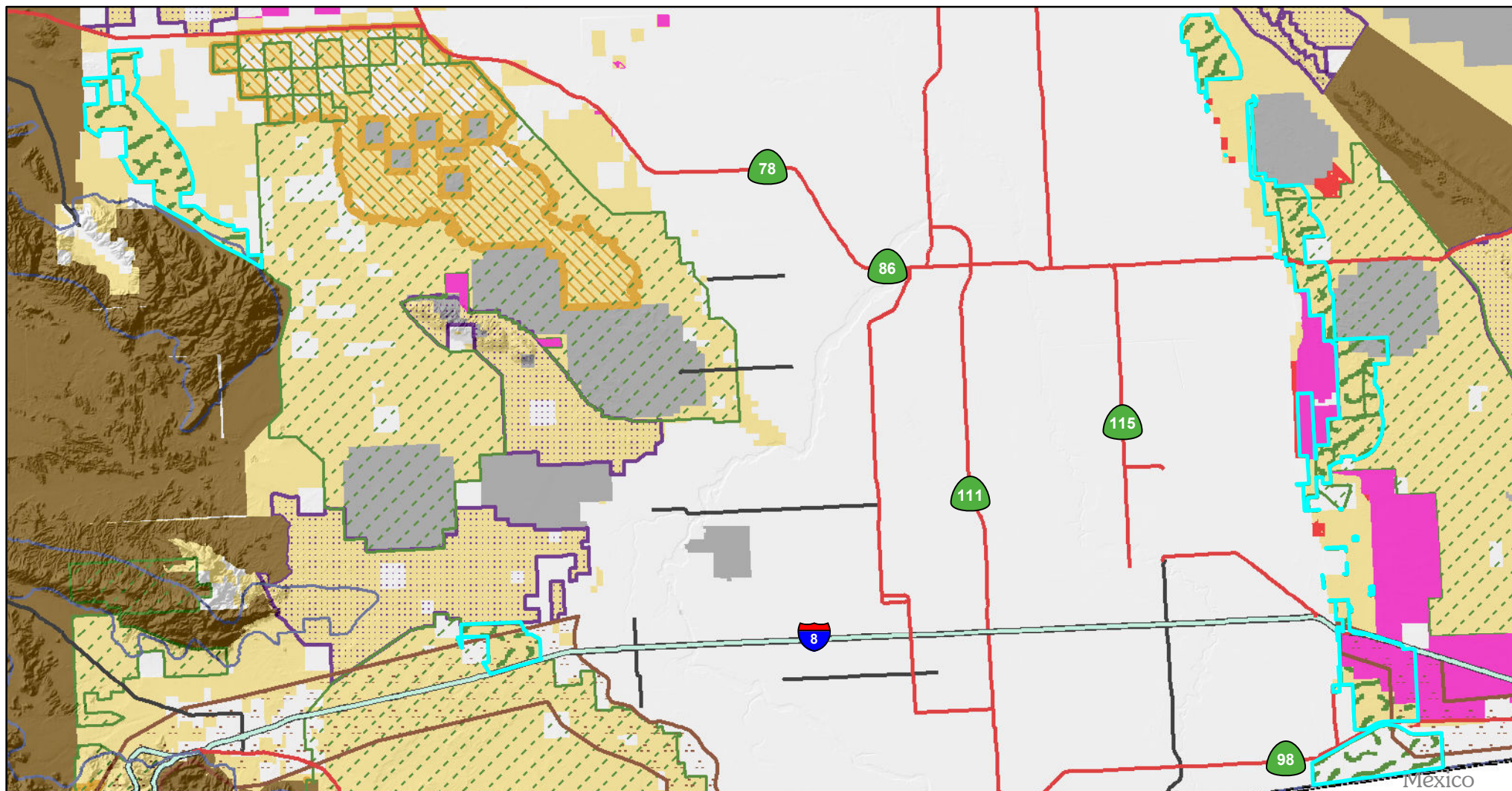
8/13/2015



Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Development Focus Areas

Variance Lands

### Land Status

Bureau of Land Management

Department of Defense

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Miles

## Lake Cahuilla

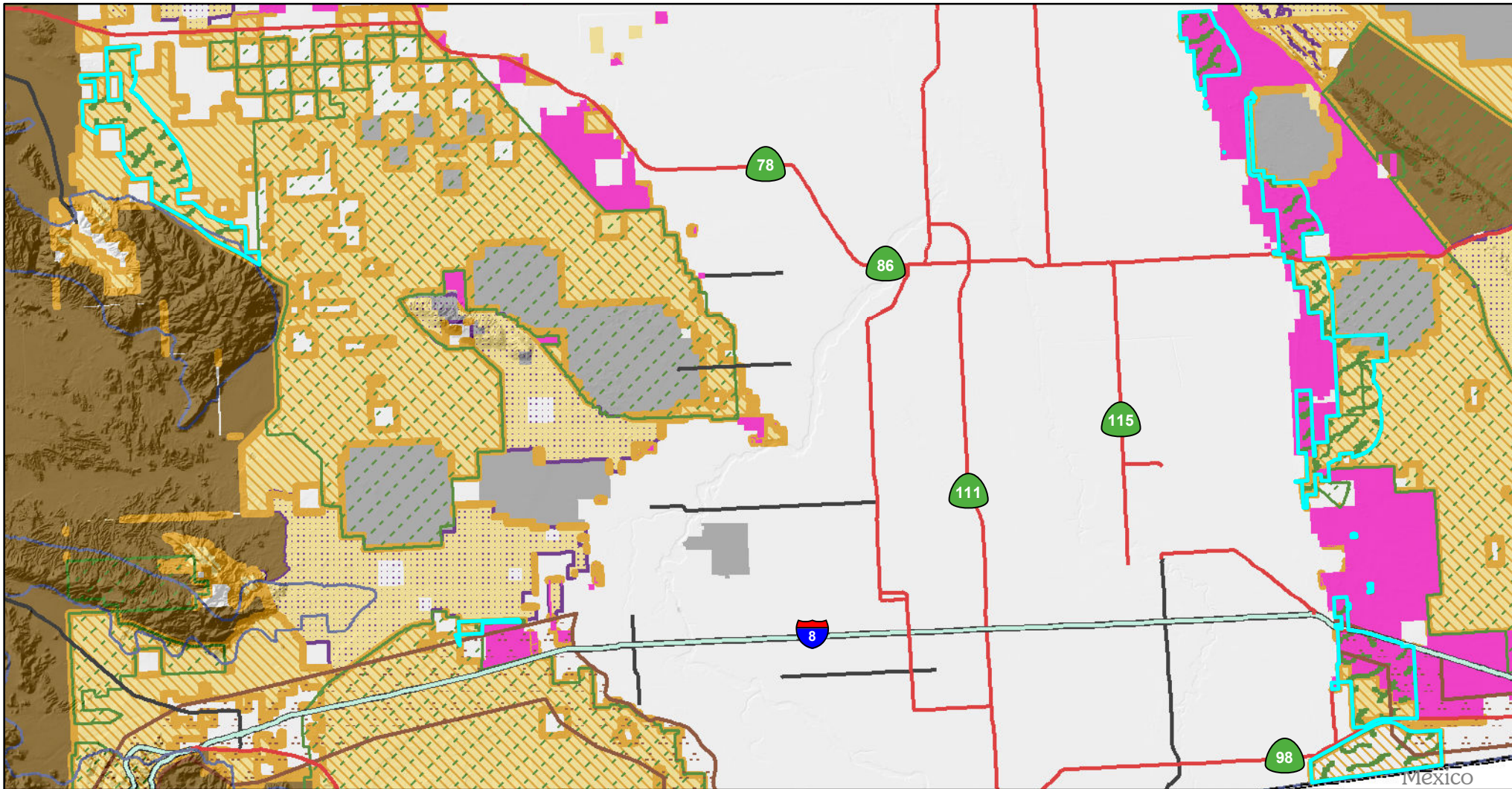
### Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







## Conservation Footprint

 Legislatively & Legally Protected Areas

 National Conservation Lands

## ACEC Boundaries

 0.1% Disturbance Cap

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 Transmission Corridor

 OHV Boundary

## Renewable Footprint

 Development Focus Areas

## Land Status

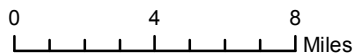
 Bureau of Land Management

 Department of Defense

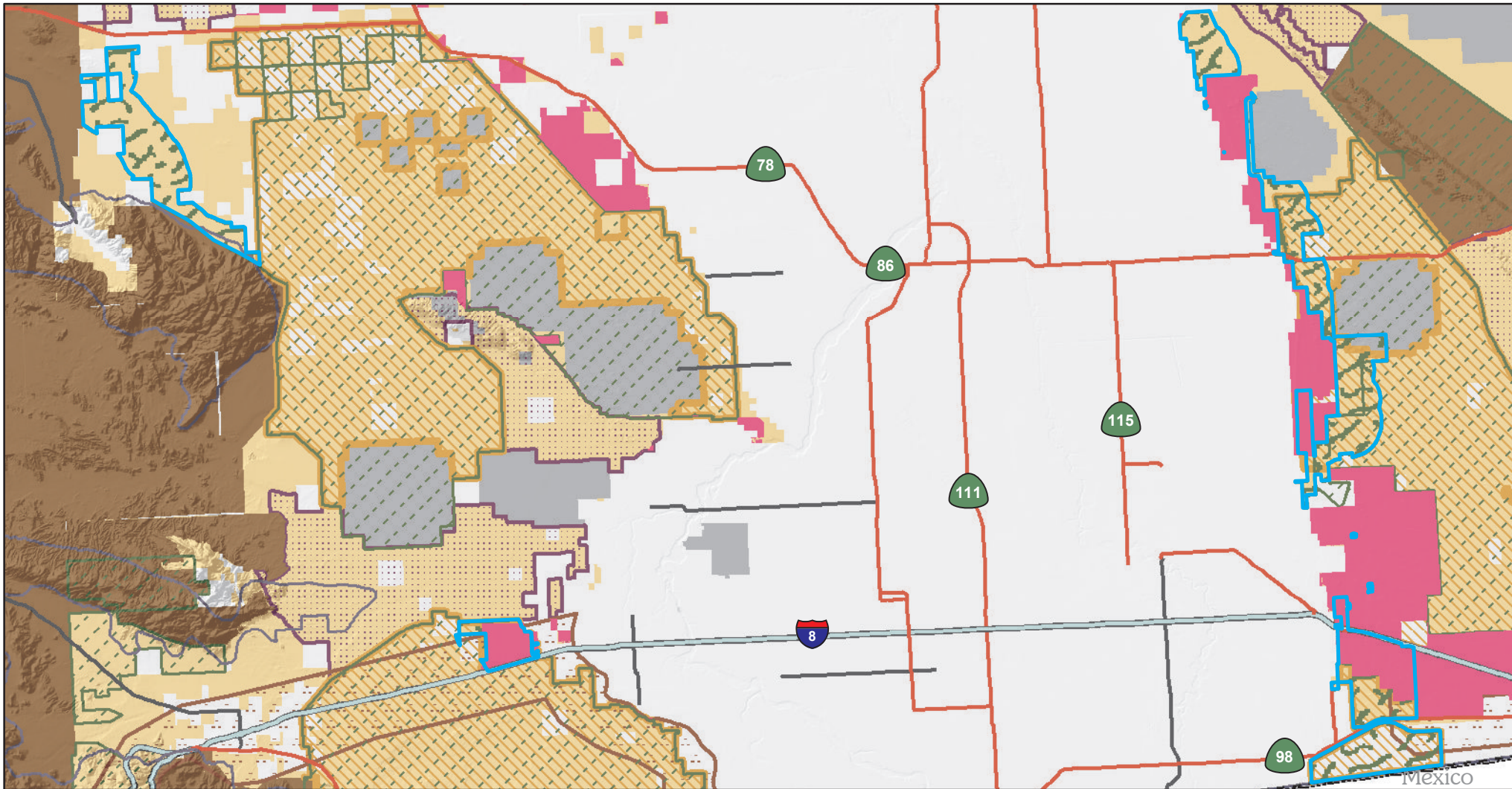
## Lake Cahuilla Alternative 2

8/26/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

Bureau of Land Management

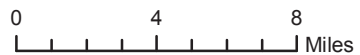
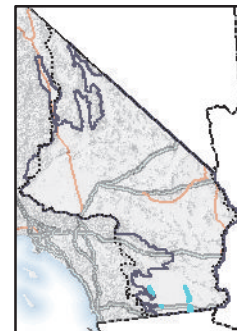
Department of Defense

## Lake Cahuilla

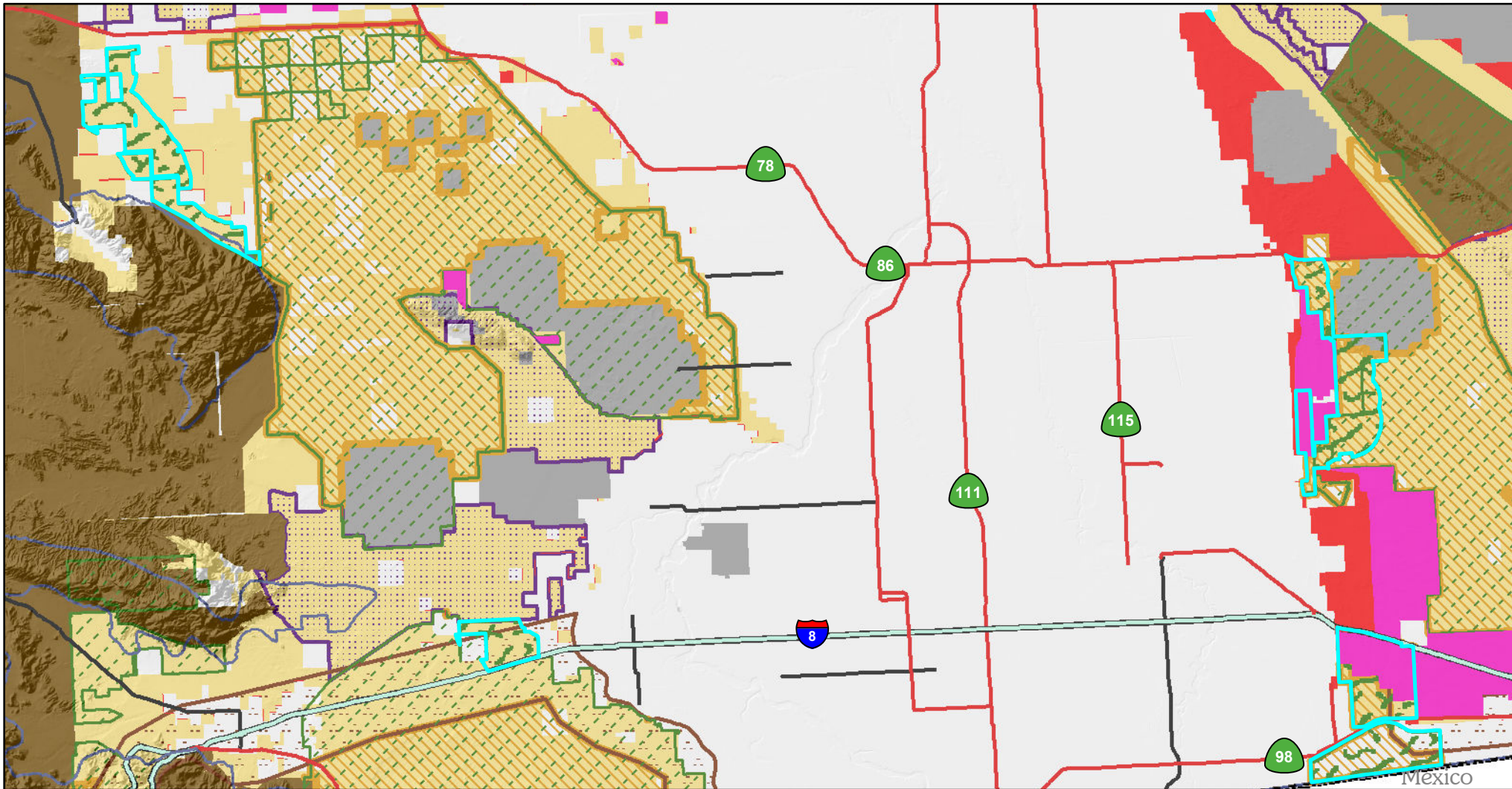
### Alternative 3

8/26/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

-  National Conservation Lands
-  Legislatively & Legally Protected Areas

### ACEC Boundaries

-  0.1% Disturbance Cap
-  1% Disturbance Cap

-  DRECP Boundary
-  CDCA Boundary
-  Transmission Corridor
-  OHV Boundary

### Renewable Footprint

-  Development Focus Areas
-  Variance Lands

### Land Status

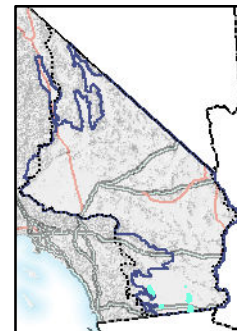
-  Bureau of Land Management
-  Department of Defense

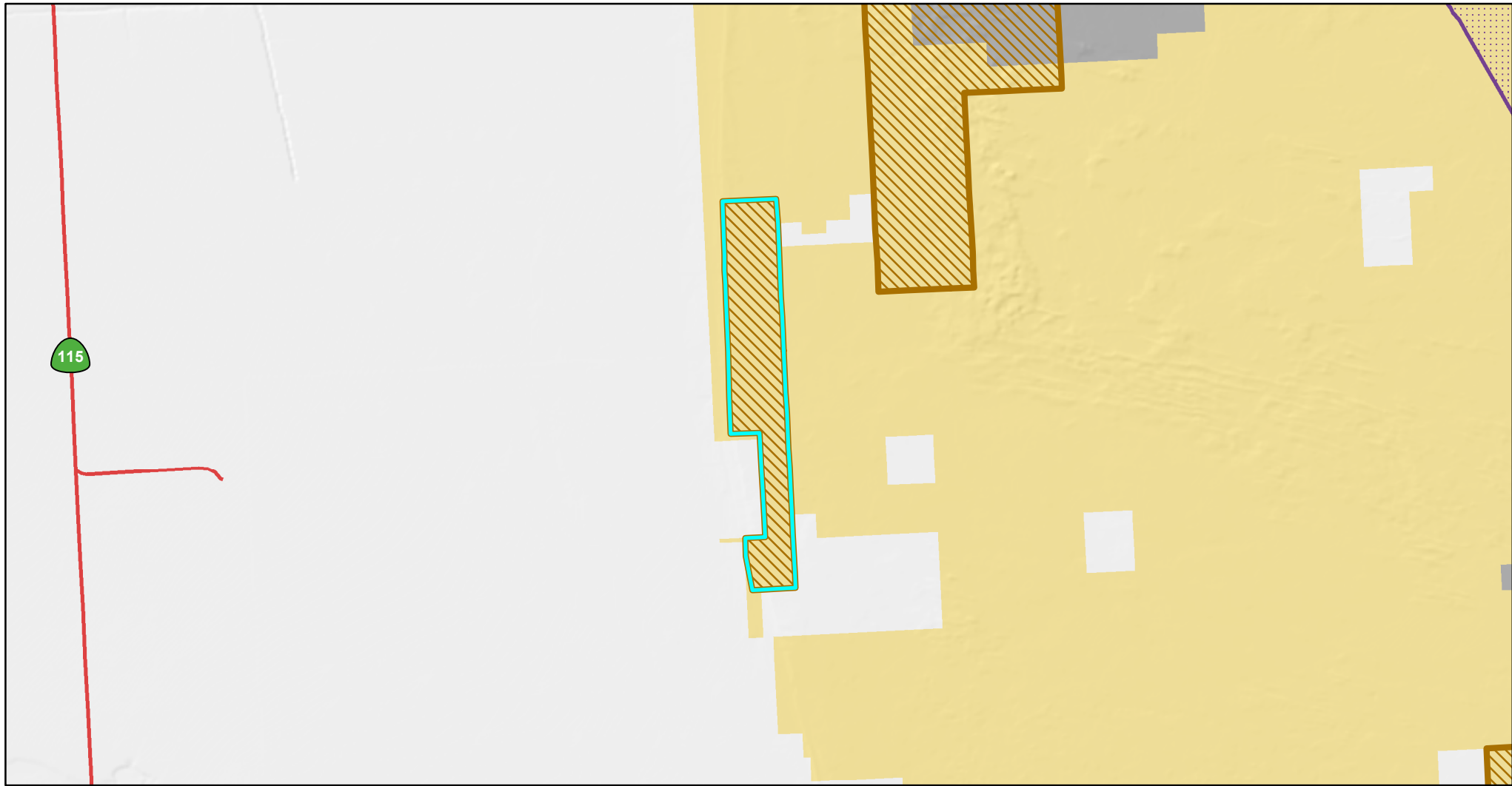
0 2 4  
Miles

## Lake Cahuilla Alternative 4

8/27/2015

Draft Map Boundaries Subject to Change





### Conservation Footprint

- |                                                                                                   |                                                                                                               |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Existing ACEC  | <b>Land Status</b>                                                                                            |
|  CDCA Boundary  |  Bureau of Land Management |
|  DRECP Boundary |  Department of Defense     |
|  OHV Boundary   |                                                                                                               |

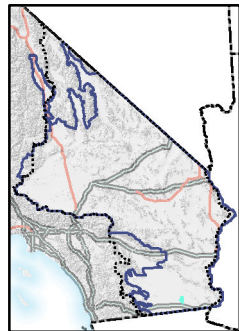
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## Lake Cahuilla - A

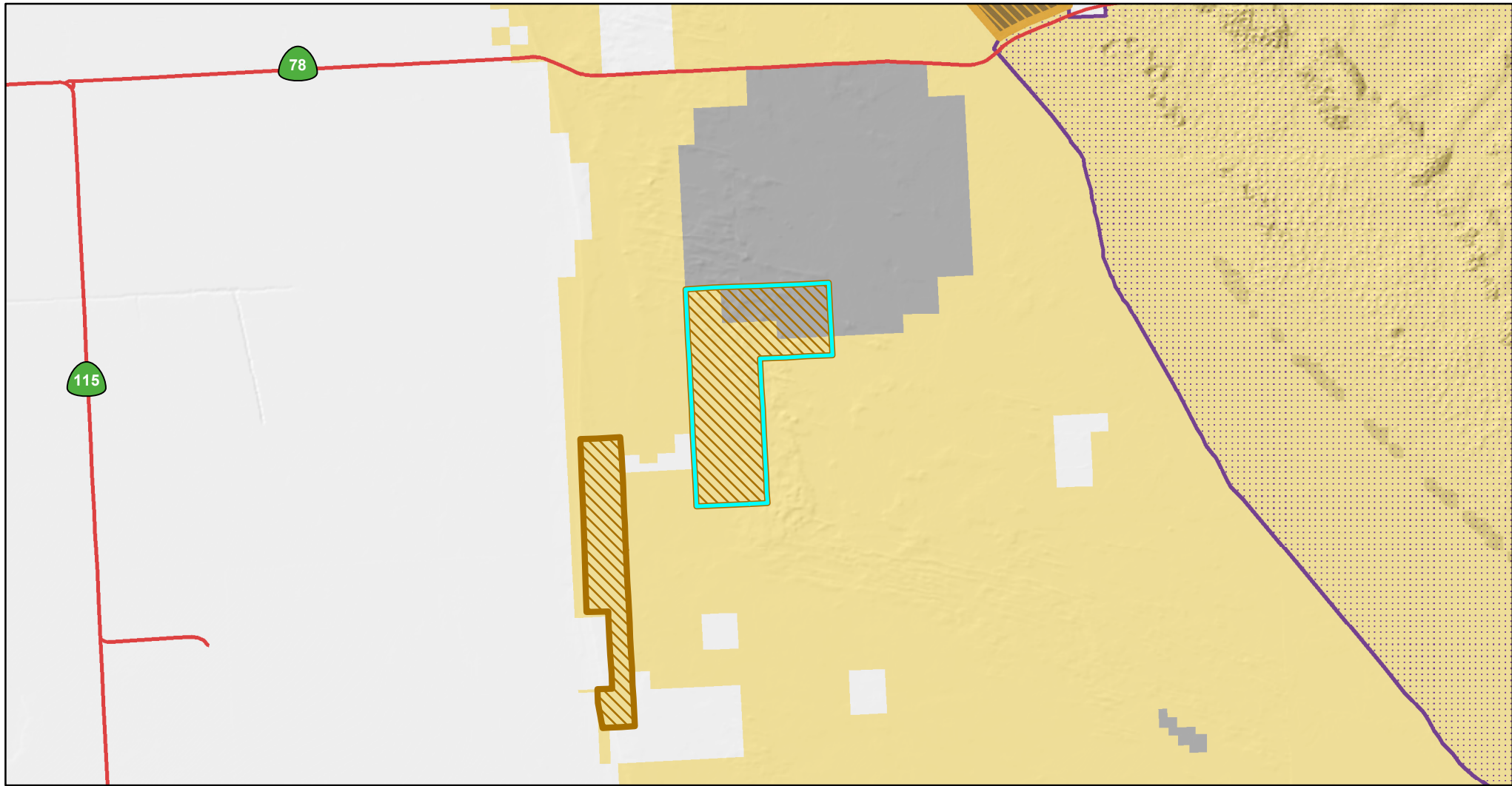
### No Action

9/15/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

|                                                                                                  |                                                                                                                             |                                                                                                           |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  Existing ACEC  |  National Conservation Lands             | <b>Land Status</b>                                                                                        |
|  CDCA Boundary  |  OHV Boundary                            |                                                                                                           |
|  DRECP Boundary |  Legislatively & Legally Protected Areas |                                                                                                           |
|                                                                                                  |  Bureau of Land Management               |  Department of Defense |

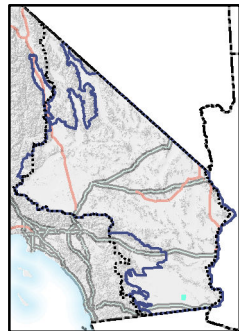
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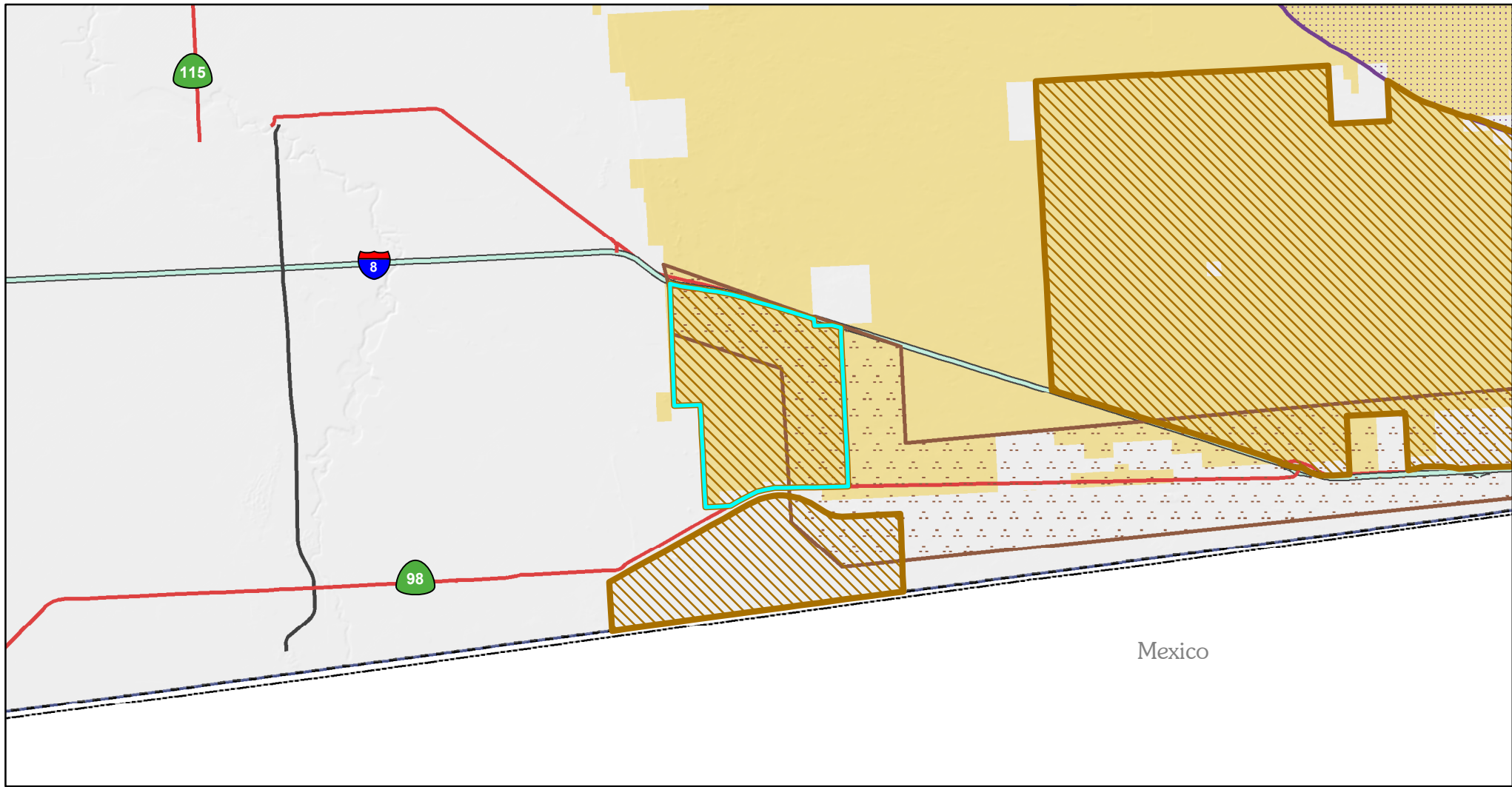
No Action

9/15/2015

Draft Map Boundaries Subject to Change

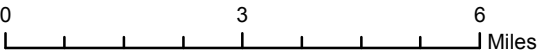
0 2.5 5 Miles





# Conservation Footprint

- |                                                                                                          |                                                                                                               |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Existing ACEC         | <b>Land Status</b>                                                                                            |
|  Transmission Corridor |  Bureau of Land Management |
|  CDCA Boundary         |  Department of Defense     |
|  DRECP Boundary        |                                                                                                               |
|  OHV Boundary          |                                                                                                               |

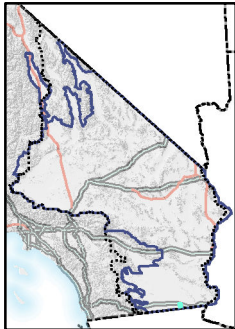


## Lake Cahuilla - C

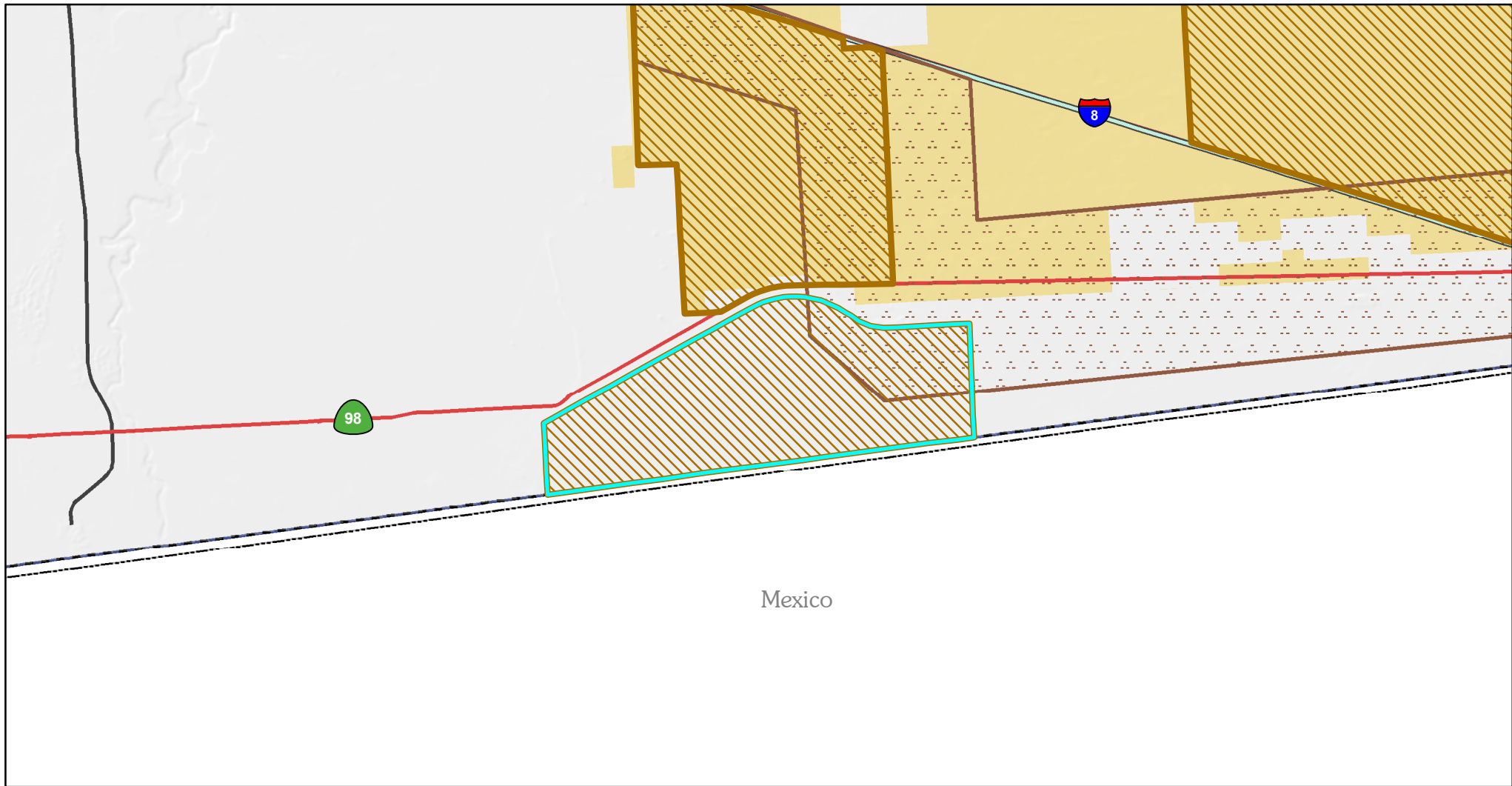
### No Action

9/15/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

- |                                                                                                         |                                                                                                               |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Existing ACEC         | <b>Land Status</b>                                                                                            |
|  Transmission Corridor |  Bureau of Land Management |
|  CDCA Boundary         |                                                                                                               |
|  DRECP Boundary        |                                                                                                               |

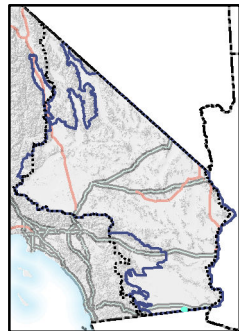
0 2 4 Miles

## Lake Cahuilla - D

### No Action

9/15/2015

Draft Map Boundaries Subject to Change



### North Algodones Dunes National Natural Landmark

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location of ACEC:** Portion of the Imperial Sand Dunes, area is bordered to the south by Highway 78, on the west by the Coachella Canal, on the east by the Southern Pacific Railroad and the Niland /Glamis Road, and on the north by Mammoth Wash.

**Nationally Significant Values:** Not proposed for NLCS designation, it overlaps designated wilderness and is automatically in NCLS.

**Special Designations/Management Plan/Date:** ACEC Plan No. 95, 1989. Under the Imperial Sand Dune Recreation Area Management Plan ROD (June 2013), this ACEC was undesignated. The wilderness designation was considered sufficient protections, additional special management was deemed not warranted and the ACEC designation was deleted to avoid administrative overlap.

**Relevance and Importance Criteria:**

**Biological:** This outstanding dune ecosystem and its endemic dune plants and invertebrate species set this site apart globally. Dozens of insect species are found only in the Algodones Dunes. The area is an important wintering area for raptors and a haven for neotropical migratory birds crossing the Sonoran Desert.

**Overarching Goals:** Protect significant cultural and natural resources found within the ACEC while providing for other uses compatible with the protection and enhancement of these resources

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

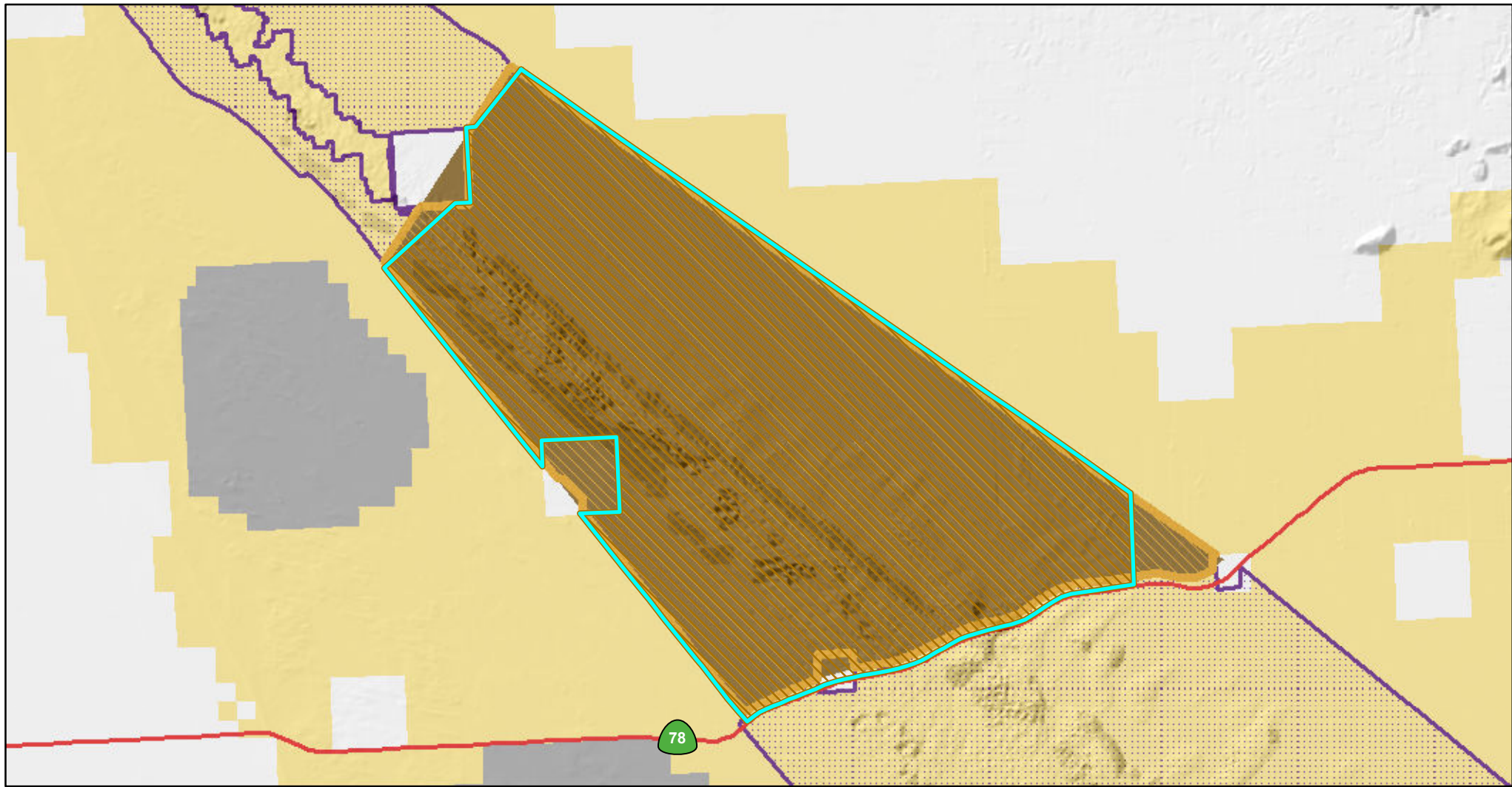


| <b>Designation and Acreage by Alternative:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      |                       |                                                  |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|--------------------------------------------------|----------------------|
| Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation             | ACEC Disturbance Cap |
| No Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                    | 0                     | 0                                                | NA                   |
| Preferred Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                    | 0                     | 0                                                | N/A                  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                    | 25,700                | 0                                                | 1%                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25,700                                               | 25,700                | 0                                                | 1%                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100                                                  | 25,700                | 0                                                | 1%                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100                                                  | 25,700                | 0                                                | 1%                   |
| <p><b>* Acreage values are for BLM managed lands</b></p> <p>****During the DRECP process this ACEC was undesignated under the ISDRA RAMP ROD (June 2013). The DRECP preferred alternative is to continue the current no action (i.e. this ACEC no longer exists). Alternatives 1-4 continue to show the ACEC, to maintain the range of alternatives. Under Alternatives 1-4, the ACEC would be managed as it was prior to the June 2013 ISDRA ROD.</p>                                                                                                                                                                                                                                                                                                            |                                                      |                       |                                                  |                      |
| <b>Objectives (desired future conditions)/Allowable Uses/Management Actions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                       | <b>Resource</b>                                  |                      |
| <p>Prescription:<br/>Monitor and protect populations and their habitats of the following rare plant species:<br/>Peirson's Milk-Vetch (<i>Astragalus magdalenae</i> var. <i>peirsonii</i>) (Federally listed)<br/>Wiggins' Croton (<i>Croton wigginsi</i>) (CNPS 2.2)<br/>Ribbed Cryptantha (<i>Cryptantha costata</i>) (CNPS 4.3)<br/>Algodones Dunes Sunflower (<i>Helianthus niveus</i> spp. <i>tephrodes</i>) (CNPS 1B.2 – BLM Sensitive)<br/>Slender Cottonheads (<i>Nemacaulis denudata</i> var. <i>gracilis</i>) (CNPS 2.2)<br/>Giant Spanish-Needles (<i>Palafoxia arida</i> var. <i>gigantea</i>) (CNPS 1B.3 – BLM Sensitive)<br/>Sand Food (<i>Pholisma sonora</i>) (CNPS 1B.2 – BLM Sensitive Species)<br/>-</p>                                       |                                                      |                       | Vegetation (incl. special status species)        |                      |
| <p>Monitor the following endemic wildlife species and protect the respective habitat of:<br/><b>Insects</b><br/><br/><i>Microbembex elegans</i>, <i>Stictiella villegasi</i>, <i>Perdita algodones</i>, <i>Perdita glamis</i>, <i>Dasymutilla nocturna</i>, <i>Dasymutilla imperialis</i>, <i>Sphaeroptthalma django</i>, Algodones sand jewel beetle (<i>Lepismadora algodones</i>) , Algodones white wax jewel beetle (<i>Prasinalia imperialis</i>), Algodones croton jewel beetle (<i>Agrilus harenus</i>), Roth's dune weevil (<i>Trigonoscuta rothi</i>), Carson's Dune Beetle (<i>Anomala carlsoni</i>), Hardy's dune Beetle (<i>Anomala hardyorum</i>), Andrews' dune scarab beetle (<i>Pseudocotalpa andrewsi</i>), <i>Cyclocephala wandae</i>, etc.</p> |                                                      |                       | Fish and Wildlife (incl. special status species) |                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <p><b>Vertebrates</b></p> <p>Burrowing Owl (<i>Athene cunicularia</i>) – BLM Sensitive<br/> Crissal Thrasher (<i>Toxostoma crissale</i>) – BLM Sensitive<br/> LeConte's Thrasher (<i>Toxostoma lecontei</i>)<br/> Loggerhead Shrike (<i>Lanius ludovicianus</i>)<br/> Flat-tailed Horned Lizard (<i>Phrynosoma mcallii</i>) – BLM Sensitive<br/> Colorado Desert Fringe-toed Lizard (<i>Uma notata</i>) – BLM Sensitive</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Protect and monitor cultural resources.<br/> Allocation: No OHV use within one mile of cultural resources except on allowed roads.<br/> Action Item 1: Perform route restoration to erase illegal routes.</p> <p>Objective: General Management of Cultural Resources<br/> Action Item 1: Ensure that management of cultural resources within the ACEC are consistent with agency responsibilities provided in Section 110 of the National Historic Preservation Act (NHPA).<br/> Action Item 2: Ensure that federal actions that may affect historic properties within the ACEC are properly reviewed and considered consistent with the requirements of Section 106 of the NHPA.<br/> Action Item 3: Ensure confidentiality of information about sensitive cultural resources consistent with Section 304 of the NHPA and Section 9 of the Archaeological Resources Protection Act.</p> <p>Objective: Establish Baseline Resource Information/Identify and Document Cultural Resources<br/> Action Item 1: Survey, identify and record new cultural resources within the ACEC boundaries.<br/> Action Item 2: Update records for existing cultural resources within the ACEC.<br/> Action Item 3: Integrate survey information into BLM cultural resources management systems (cultural GIS geodatabase)</p> <p>Objective: Identify Threats to Cultural Resources<br/> Action Item 1: Develop baseline assessment of specific natural and man-made threats to cultural resources in the ACEC (i.e., erosion, looting and vandalism, grazing, OHV).</p> <p>Objective: Monitoring/Protective Measures<br/> Action Item 1: Provide on-going monitoring for cultural resources based on the threat assessment.<br/> Action Item 2: Identify, develop or incorporate standard protection measures and best management practices to address threats.<br/> Action Item 3: Where specific threats are identified, implement protection measures consistent with agency Section 106 responsibilities.</p> | <p>Cultural Resources</p> |



|                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <p>Objective: Interpretation/Public Awareness</p> <p>Action Item 1: Facilitate research, scientific study, and general study of cultural resources within the ACEC.</p> <p>Action Item 2: Where appropriate and with consideration of site protection and confidentiality, develop and provide interpretation to the public about cultural resources, including signs, interpretive panels, web-based information.</p> |                                                                 |
| <p>Prescription:</p> <ul style="list-style-type: none"> <li>- Maintain and aggressively enforce motor vehicle closure</li> </ul>                                                                                                                                                                                                                                                                                       | Trails and Travel Management                                    |
| <p>Prescription:</p> <ul style="list-style-type: none"> <li>- Enhance non-motorized recreation opportunities by developing maps of trails, animal and plant lists, watchable wildlife stations, etc.</li> </ul>                                                                                                                                                                                                        | Recreation                                                      |
| <p>Objective: Consolidate through tenure adjustment.</p> <p>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.</p>                                                                                                                                                                                                                                                          | Land Tenure                                                     |
| <p>Objective: Protect resource values of the ACEC</p> <p>Management Action: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.</p>                                                                                                                                                  | Rights of Way                                                   |
| <p>Closed to renewable energy.</p> <p>Geothermal: ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation.</p>                                                                                                                                                         | Renewable Energy                                                |
| <p>There are no active mining operations or locatable, leasable mineral material operations on public lands within the North Algodones ACEC. Possibility for mineral interest in the area is negligible.</p>                                                                                                                                                                                                           | Locatable Minerals<br>Mineral Materials<br>Non-Energy Leasables |
| <p>North Algodones NNL has the same boundaries as the portion as the North Algodones Dunes Wilderness</p>                                                                                                                                                                                                                                                                                                              | Overlapping land designations                                   |



### Conservation Footprint

|                                                                                                  |                                                                                                                             |                                                                                                           |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  Existing ACEC  |  National Conservation Lands             | <b>Land Status</b>                                                                                        |
|  CDCA Boundary  |  OHV Boundary                            |                                                                                                           |
|  DRECP Boundary |  Legislatively & Legally Protected Areas |                                                                                                           |
|                                                                                                  |  Bureau of Land Management               |  Department of Defense |

## North Algodones Dunes

### No Action

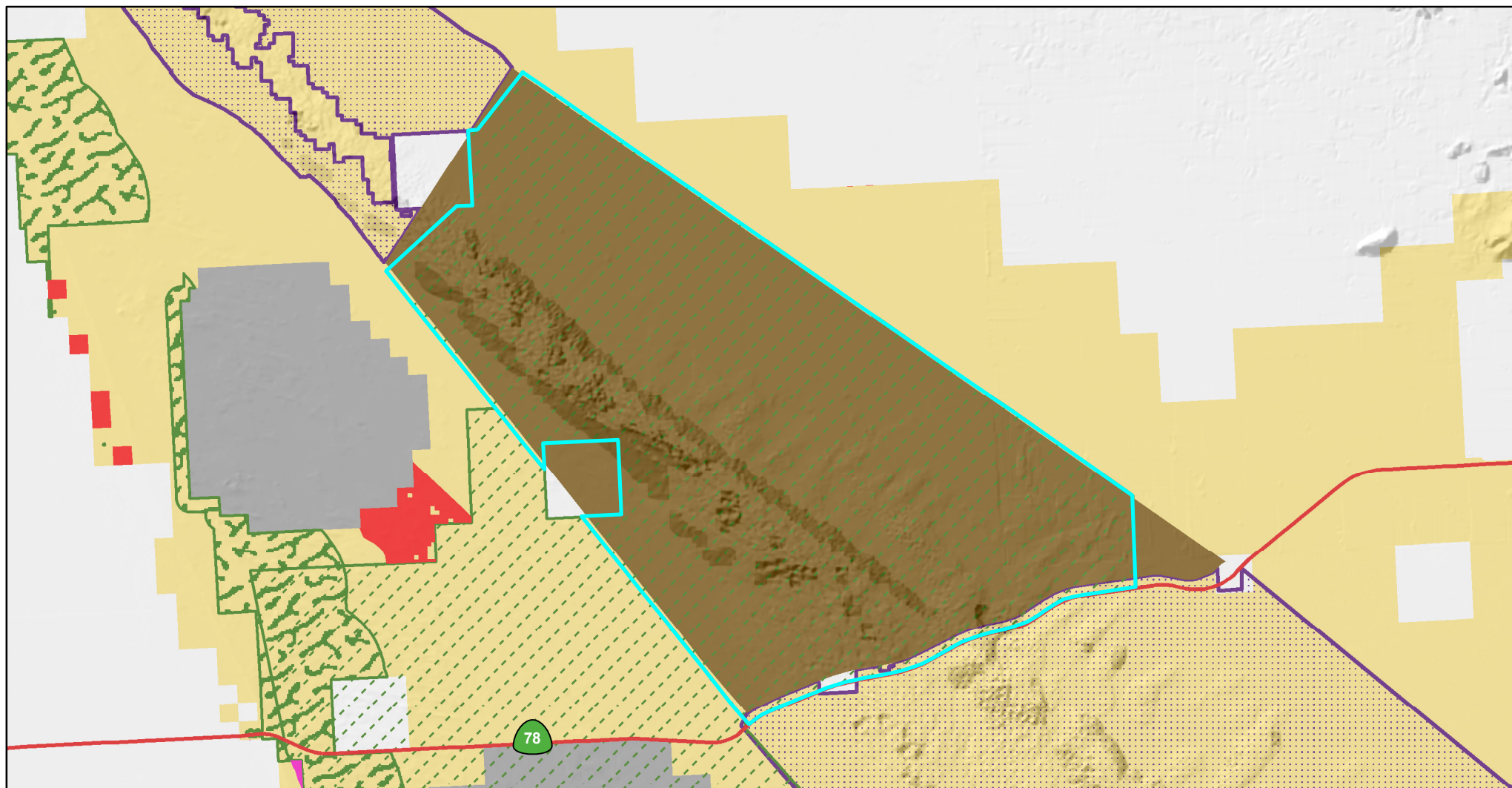
9/15/2015

Draft Map Boundaries Subject to Change

0 2.5 5 Miles







### Conservation Footprint

Legislatively & Legally Protected Areas

### ACEC Boundaries

- 0.1% Disturbance Cap
- 1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

### Renewable Footprint

- Development Focus Areas
- Variance Lands

### Land Status

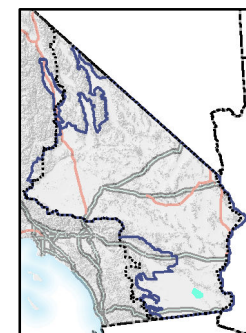
- Bureau of Land Management
- Department of Defense

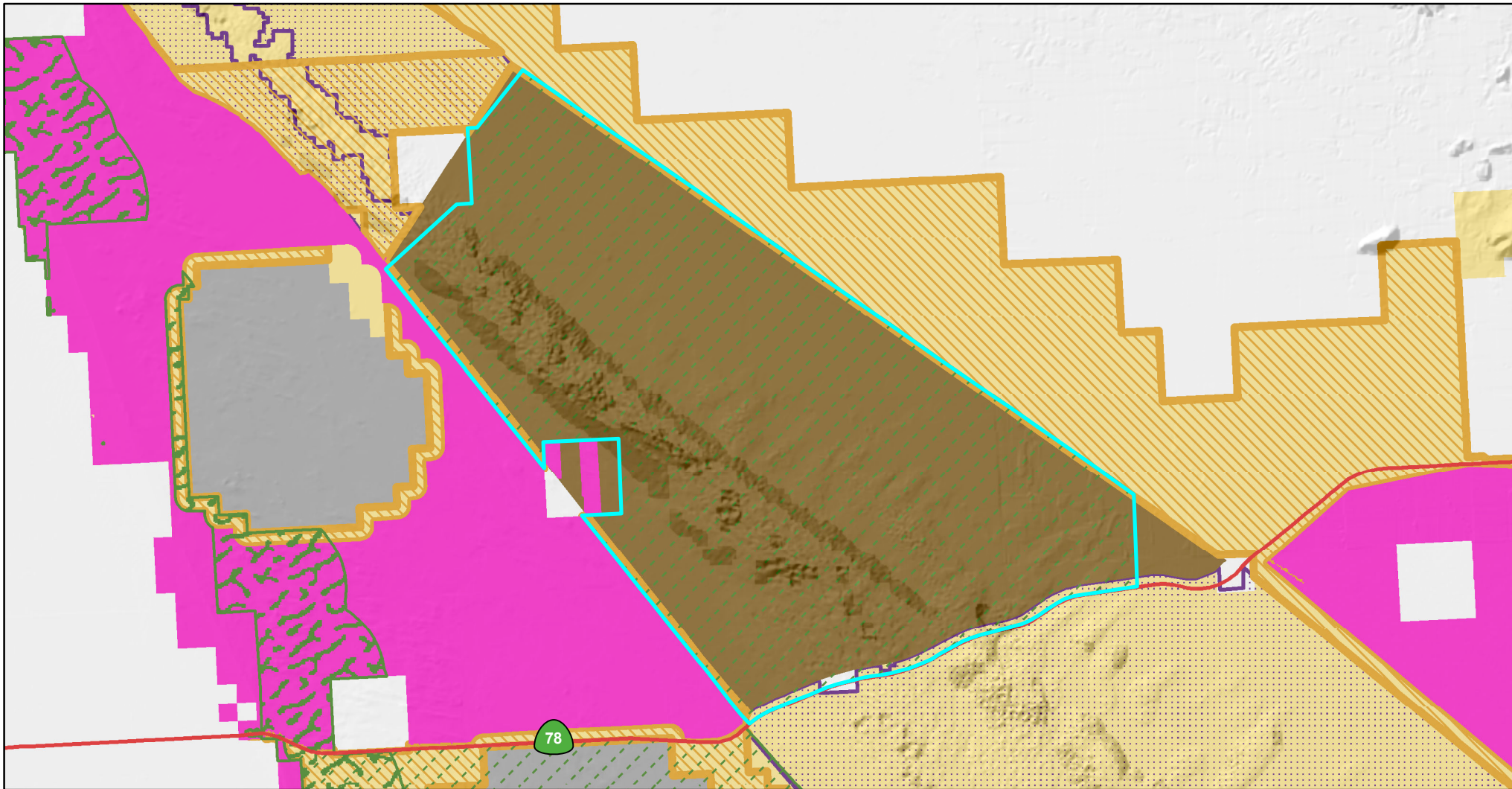
0 1 2 Miles

## North Algodones Dunes Alternative 1

9/16/2015

Draft Map Boundaries Subject to Change





### Conservation Footprint

- |                                         |                            |
|-----------------------------------------|----------------------------|
| Legislatively & Legally Protected Areas | DRECP Boundary             |
| National Conservation Lands             | CDCA Boundary              |
| <b>ACEC Boundaries</b>                  | OHV Boundary               |
| 0.1% Disturbance Cap                    | <b>Renewable Footprint</b> |
| 1% Disturbance Cap                      | Development Focus Areas    |

### Land Status

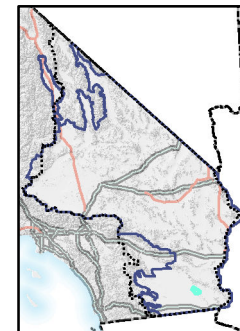
- |                           |
|---------------------------|
| Bureau of Land Management |
| Department of Defense     |

## North Algodones Dunes Alternative 2

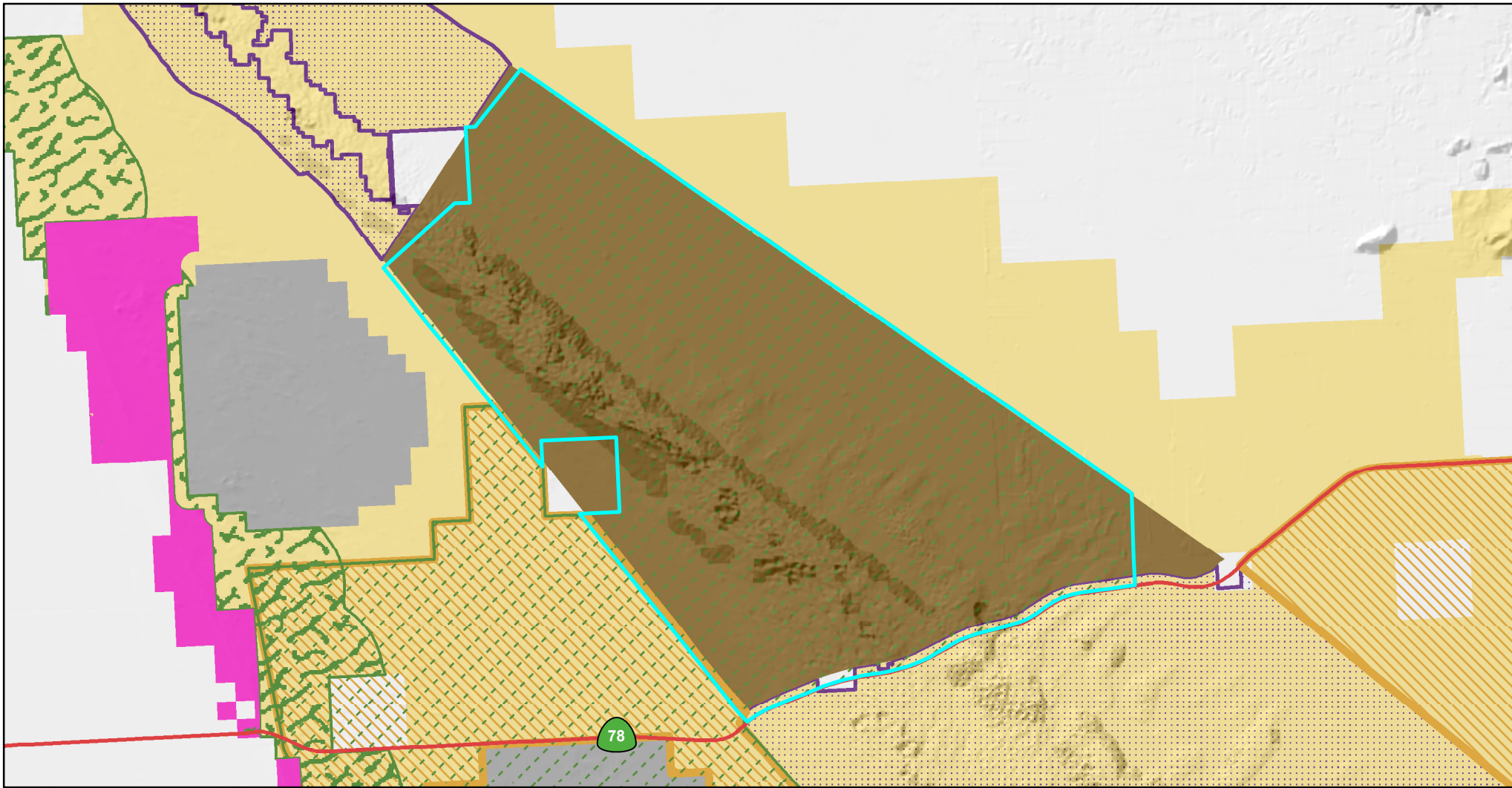
9/16/2015

Draft Map Boundaries Subject to Change

0 1 2  
Miles







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

Bureau of Land Management

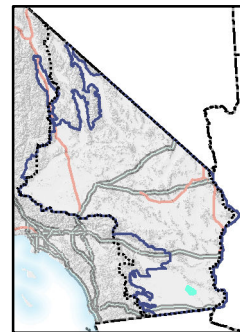
Department of Defense

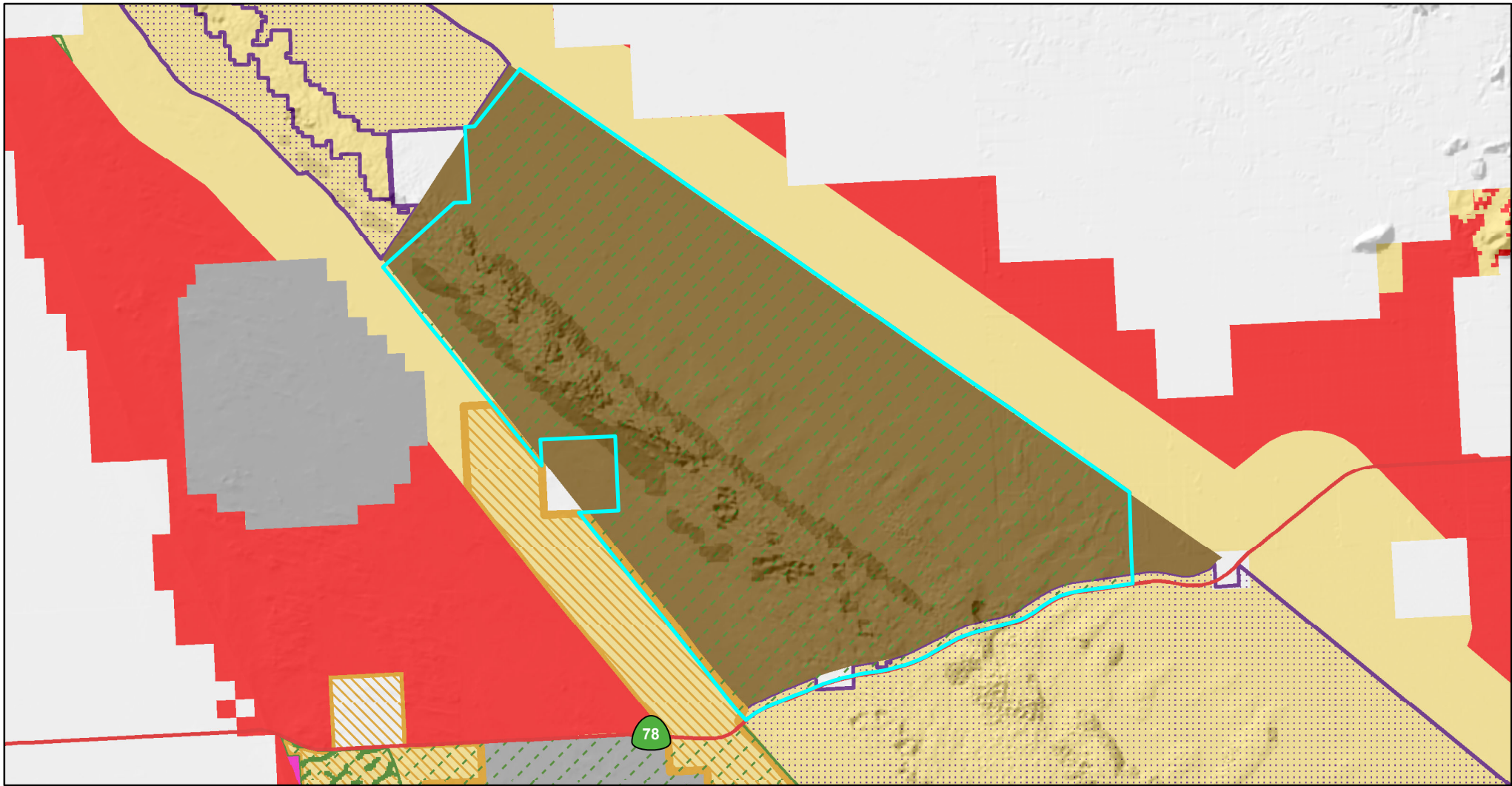
0 1 2  
Miles

## North Algodones Dunes Alternative 3

9/16/2015

Draft Map Boundaries Subject to Change



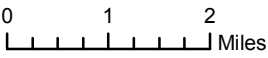


# Conservation Footprint

- National Conservation Lands
- Legislatively & Legally Protected Areas

## ACEC Boundaries

- 0.1% Disturbance Cap
- 1% Disturbance Cap



- DRECP Boundary
- CDCA Boundary
- OHV Boundary

## Renewable Footprint

- Development Focus Areas
- Variance Lands

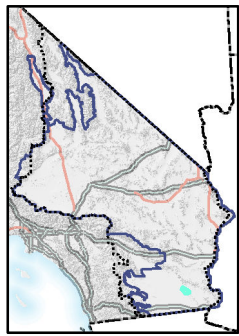
## Land Status

- Bureau of Land Management
- Department of Defense

# North Algodones Dunes Alternative 4

9/16/2015

Draft Map Boundaries Subject to Change





## Ocotillo

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location** – The proposed conservation lands and new ACEC are located in southwestern Imperial County, south of the Coyote Mountains Wilderness and east of the Jacumba Wilderness. It is adjacent to Anza Borrego State Park and the Ocotillo Express Wind Energy Facility right-of-way.

### **Nationally Significant Values:**

**Cultural:** The conservation lands and ACEC contain important cultural resources ranging from archaic sites to resources related to the ancestors of living Kumeyaay, Quechan, and Cocopah Indians (i.e. intaglios, rock alignments, temporary camps, lithic scatters, cremation loci, pottery loci, trails and shrines). The area also contains important tribal/Native American values as it is encompassed by an ethnographic landscape that is a traditional cultural property according to many of the local Indian tribes. Prehistoric archaeological sites listed in (Spoke Wheel geoglyph) and eligible for listing in the National Register of Historic Places (NRHP) are located within this ACEC.

**Ecological:** The Ocotillo conservation lands and ACEC provide a contiguous protected landscape connecting the Yuha Basin, Jacumba Wilderness, and Anza-Borrego Desert State Park. This landscape includes the spectacular boulder strewn escarpment of the Peninsular Range (In-Ko-Pah Mountains), through which Interstate 8 climbs from the Imperial Valley into the mountains. These lands contain habitat (i.e. desert washes and Mesquite hummocks) for the flat-tailed horned lizard and habitat for the Federally Endangered Peninsular Bighorn Sheep. This is an important corridor for Bighorn sheep moving between the State Park and the Jacumba Wilderness. Rare California Fan palms occur in this area.

**Scientific:** Prehistoric archaeological sites with scientific information potential that make them eligible for listing in the NRHP are located within this ACEC. This ACEC contains an abundance of sensitive vertebrate and invertebrate paleontological resources from the Palm Springs Formation.

**Special Designations/Management Plan/Date:** No previous special designation.

### **Relevance and Importance Criteria:**

**Cultural:** The conservation lands and ACEC contain important cultural resources ranging from archaic sites to resources related to the ancestors of living Kumeyaay, Quechan, and Cocopah Indians (i.e. intaglios, rock alignments, temporary camps, lithic scatters, cremation loci, pottery loci, trails and shrines). The area also contains important tribal/Native American values as it is encompassed by an ethnographic landscape that is a traditional cultural property according to many of the local Indian tribes. Prehistoric archaeological sites listed in (Spoke Wheel geoglyph) and eligible for listing in the National Register of Historic Places (NRHP) are located within this ACEC.

**Ecological:** These lands contain habitat (i.e. desert washes and Mesquite hummocks) for the flat-tailed horned lizard and habitat for the Federally Endangered Peninsular Bighorn Sheep. This is an important corridor for Bighorn sheep moving between the State Park and the Jacumba Wilderness. Rare California Fan palms occur in this area.

**Overarching Goals:** Protect and enhance the cultural, paleontological and ecological values that exist within the ACEC while providing for compatible uses.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

**Designation and Acreage by Alternative:**

| Alternative           | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation | ACEC Disturbance Cap |
|-----------------------|------------------------------------------------------|-----------------------|--------------------------------------|----------------------|
| No Action             | 0                                                    | 0                     | 0                                    | NA                   |
| Preferred Alternative | 12,430                                               | 14,639                | 0                                    | 1%                   |
| 1                     | 500                                                  | 14,600                | 0                                    | 1%                   |
| 2                     | 14,600                                               | 14,600                | 0                                    | 1%                   |
| 3                     | 0                                                    | 14,600                | 0                                    | 1%                   |
| 4                     | 500                                                  | 14,600                | 0                                    | 1%                   |

**\* Acreage values are for BLM managed lands**

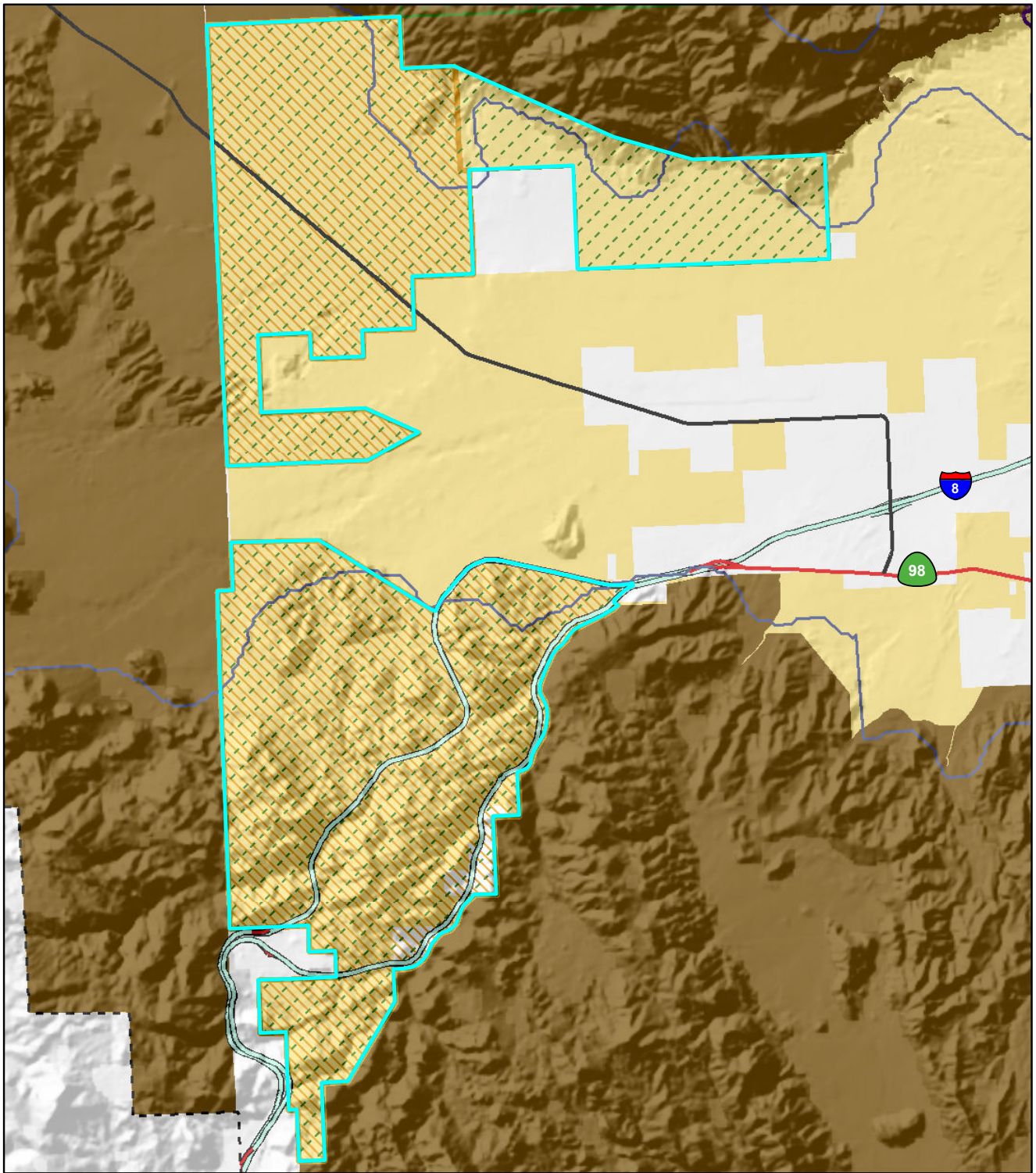
| Objectives (desired future condition)/Allowable Uses/Management Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Resource                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <p>Objective: Minimize soil disturbance.</p> <p>Objective: Manage the ACEC with the standards for CO, H2S, visibility-reducing particles, and attainment for other criteria in accordance with the standards set by the Imperial County Air Pollution Control District.</p> <p>Management Actions: Coordinate with the Imperial County Air Pollution Control District.</p>                                                                                                                                                                                           | Soil, water, air                          |
| Vegetation of the ACEC is composed of creosote bush scrub, succulent scrub and desert microphyll woodland communities. The major components of the creosote bush scrub community include creosote bush ( <i>Larrea tridentata</i> ), bursage ( <i>Ambrosia dumosa</i> ), brittlebush ( <i>Encelia farinosa</i> ), and cholla ( <i>Opuntia</i> spp.). Major components of the succulent scrub community are cacti, including cholla, hedgehog cactus ( <i>Echinocereus engelmanni</i> var. <i>engelmanni</i> ), and barrel cactus ( <i>Ferocactus acanthocarpa</i> ). | Vegetation (incl. special status species) |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <p>Objective: Protect and enhance robust populations of both rare and common native plants.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV routes.</p> <p>Management Action: Place signs, kiosks and interpretive information at key recreational sites to better inform the public about the important plant resources.</p> <p>Management Action: Eradicate and control the spread of invasive and noxious weeds.</p> <p>Objective: Create a baseline of plant species to track environmental changes.</p> <p>Management Action: Inventory vascular and non-vascular plants, include soil crust species, in the ACEC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |
| <p>Special Status Species:</p> <p>Peninsular bighorn sheep, flat tailed horned lizard</p> <p>Objective: Maintain and enhance habitat that supports native wildlife.</p> <p>Management Action: Monitor wildlife for habitat and population change.</p> <p>Objective: Manage landscape to ensure wildlife passage and connectivity between wildlife populations.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fish and Wildlife (incl. special status species) |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Provide for highest level of protection of sensitive cultural resources.</p> <p>Management Action: Perform route restoration to erase illegal routes.</p> <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p> <p>Management Action: Increase compliance with protection of resources in the area.</p> <p>Management Action: Nominate the significant sites or potential districts to the NRHP.</p> <p>Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the cultural resource values present within the ACEC.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV Routes.</p> <p>Objective: Increase public awareness of the general cultural resources values within the ACEC.</p> <p>Management Action: Install informative signage and kiosks at various appropriate locations within the ACEC.</p> | Cultural Resources                               |
| <p>Objective: Protect the characteristic landscape of the In-Ko-Pah Mountains and Boulder Canyon.</p> <p>Management Actions: Avoid impacts to characteristic landscape by following prescriptions of appropriate VRM class.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Visual Resources                                 |

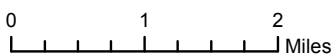
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <p>Objective: Manage the route of travel network to fulfill requirements of the original CDCA Plan and the WECO Plan Amendment.</p> <p>Management Action: Install signage and provide maps to the public to inform them of route locations and regulations.</p> <p>Management Action: Increase BLM personnel visits to the area, as funding allows.</p> <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p>                               | Trails and Travel Management                                         |
| <p>Objective: Promote dispersed recreational activities in this area which would include (but is not limited to) sight-seeing, camping, hunting, target shooting, hiking, and 4x4 touring.</p> <p>Objective: Encourage compliance with ACEC management recommendations.</p> <p>Management Action: Increase BLM personnel visits to the area, as funding allows.</p> <p>Management Action: Install signage and provide maps to the public to inform them of route locations and regulations.</p> | Recreation                                                           |
| <p>Objective: Consolidate through tenure adjustment.</p> <p>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.</p>                                                                                                                                                                                                                                                                                                                                   | Land Tenure                                                          |
| <p>Objective: Protect resource values of the ACEC</p> <p>Management Action 1: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.</p> <p>Management Action 2: Limit transmission line ROWs to designated utility corridors.</p>                                                                                                                               | Rights of Way                                                        |
| <p>Closed to renewable energy development.</p> <p>Geothermal: ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation.</p>                                                                                                                                                                                                                      | Renewable Energy                                                     |
| <p>Objective: Review proposed mining activities to ensure that they provide adequate protection of public lands and their resources.</p> <p>Allowable Uses: Mining activities would be allowed with appropriate analysis, stipulations, and mitigation. Management Actions: Review any projects that would contribute to surface disturbance on a case by case basis. Ensure that any surface disturbance is accompanied by an archaeological inventory and Environmental Assessment.</p>       | Locatable Minerals, Saleable Mineral Materials, Non-Energy Leasables |





### Conservation Footprint

- |                                                                                                                             |                                                                                                    |                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Legislatively & Legally Protected Areas |  DRECP Boundary | <b>Land Status</b>                                                                                            |
|  National Conservation Lands             |  CDCA Boundary  |  Bureau of Land Management |
| <b>ACEC Boundaries</b>                                                                                                      |  OHV Boundary   |                                                                                                               |
|  1% Disturbance Cap                      |                                                                                                    |                                                                                                               |

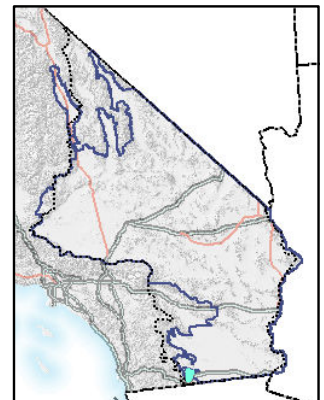


## Ocotillo

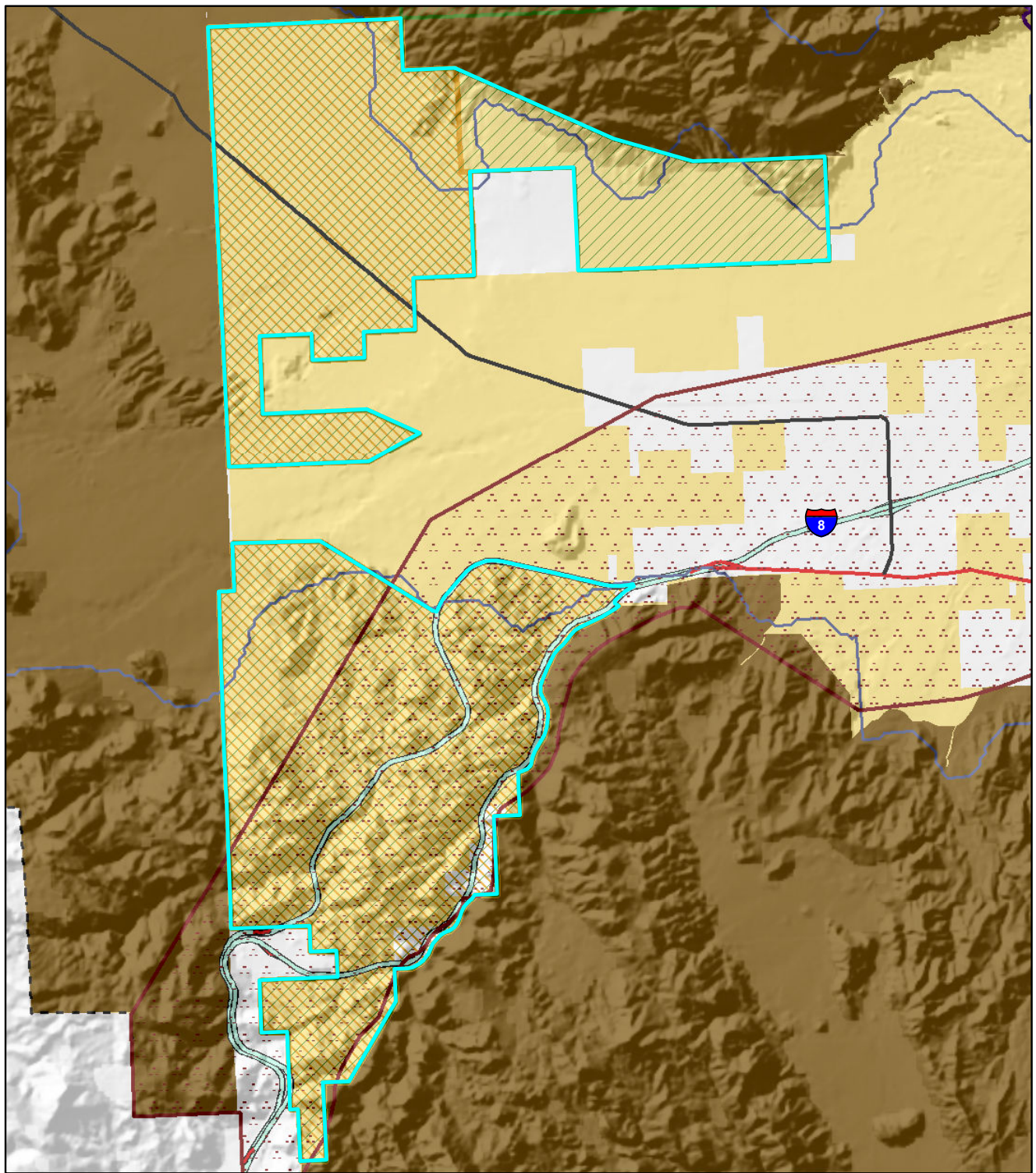
6/25/2015



Draft Map Boundaries Subject to Change

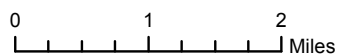






# Conservation Footprint

- |                                                                                                                             |                                                                                                           |                    |                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------|
|  Legislatively & Legally Protected Areas |  DRECP Boundary        | <b>Land Status</b> |                                                                                                               |
|  National Conservation Lands             |  CDCA Boundary         |                    |  Bureau of Land Management |
|  Proposed ACEC                           |  Transmission Corridor |                    |                                                                                                               |
|                                                                                                                             |  OHV Boundary          |                    |                                                                                                               |

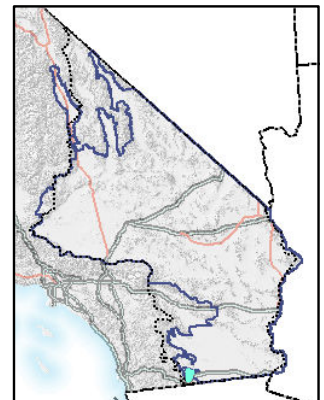


## Ocotillo

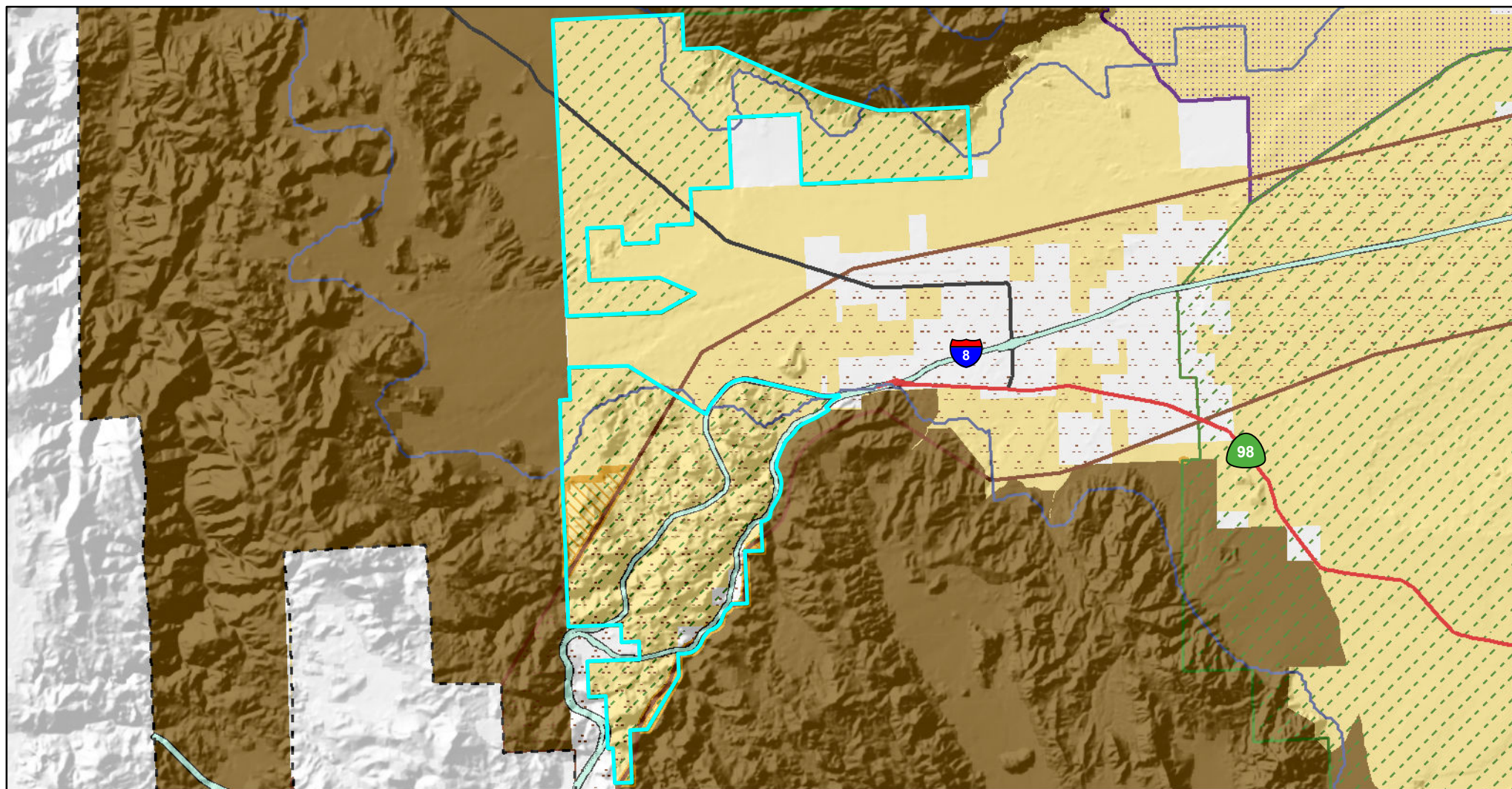
7/14/2015



Draft Map Boundaries Subject to Change







# Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

Land Status

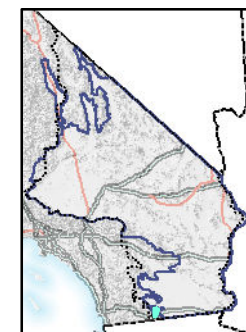
Bureau of Land Management

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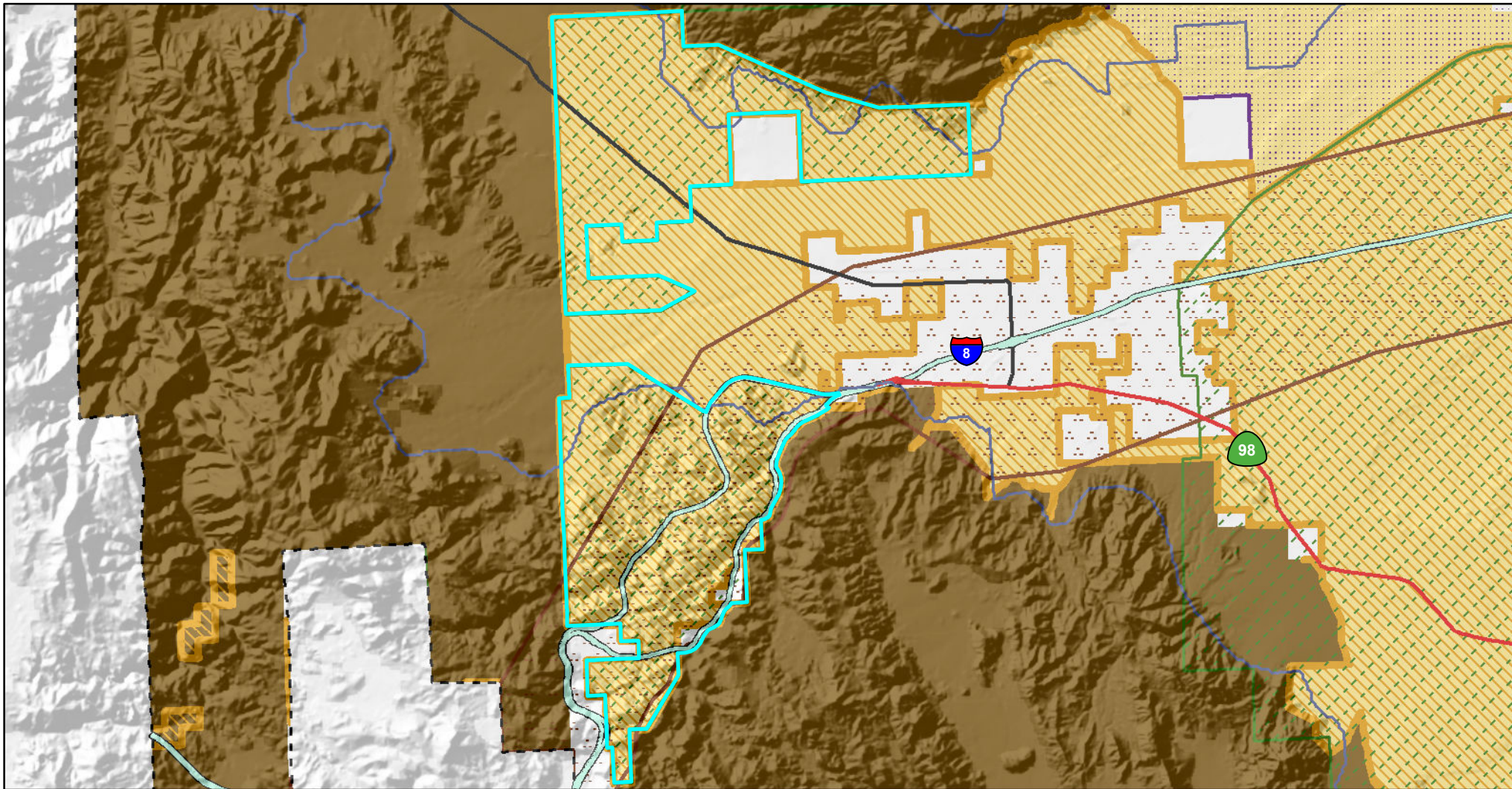
## Ocotillo Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







## Conservation Footprint

 Legislatively & Legally Protected Areas

 National Conservation Lands

## ACEC Boundaries

 0.25% Disturbance Cap

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 Transmission Corridor

 OHV Boundary

## Land Status

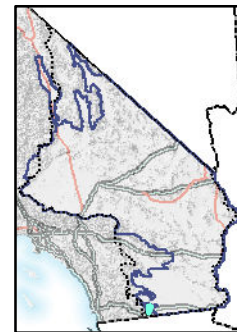
 Bureau of Land Management

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Miles

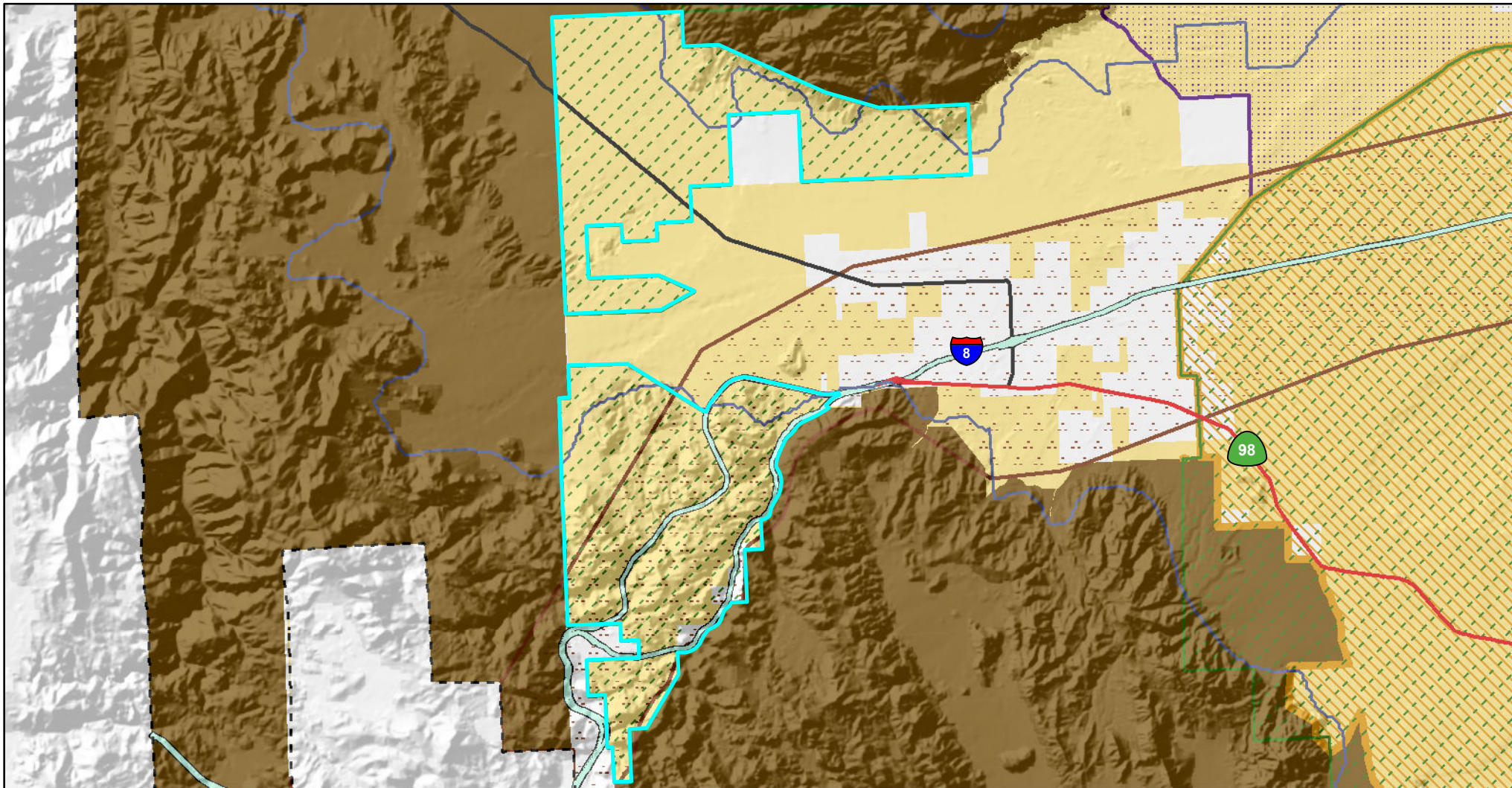
## Ocotillo Alternative 2

8/26/2015

Draft Map Boundaries Subject to Change







## Conservation Footprint

 Legislatively & Legally Protected Areas

 National Conservation Lands

ACEC Boundaries

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 Transmission Corridor

 OHV Boundary

## Land Status

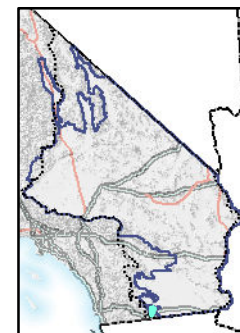
 Bureau of Land Management

## Ocotillo Alternative 3

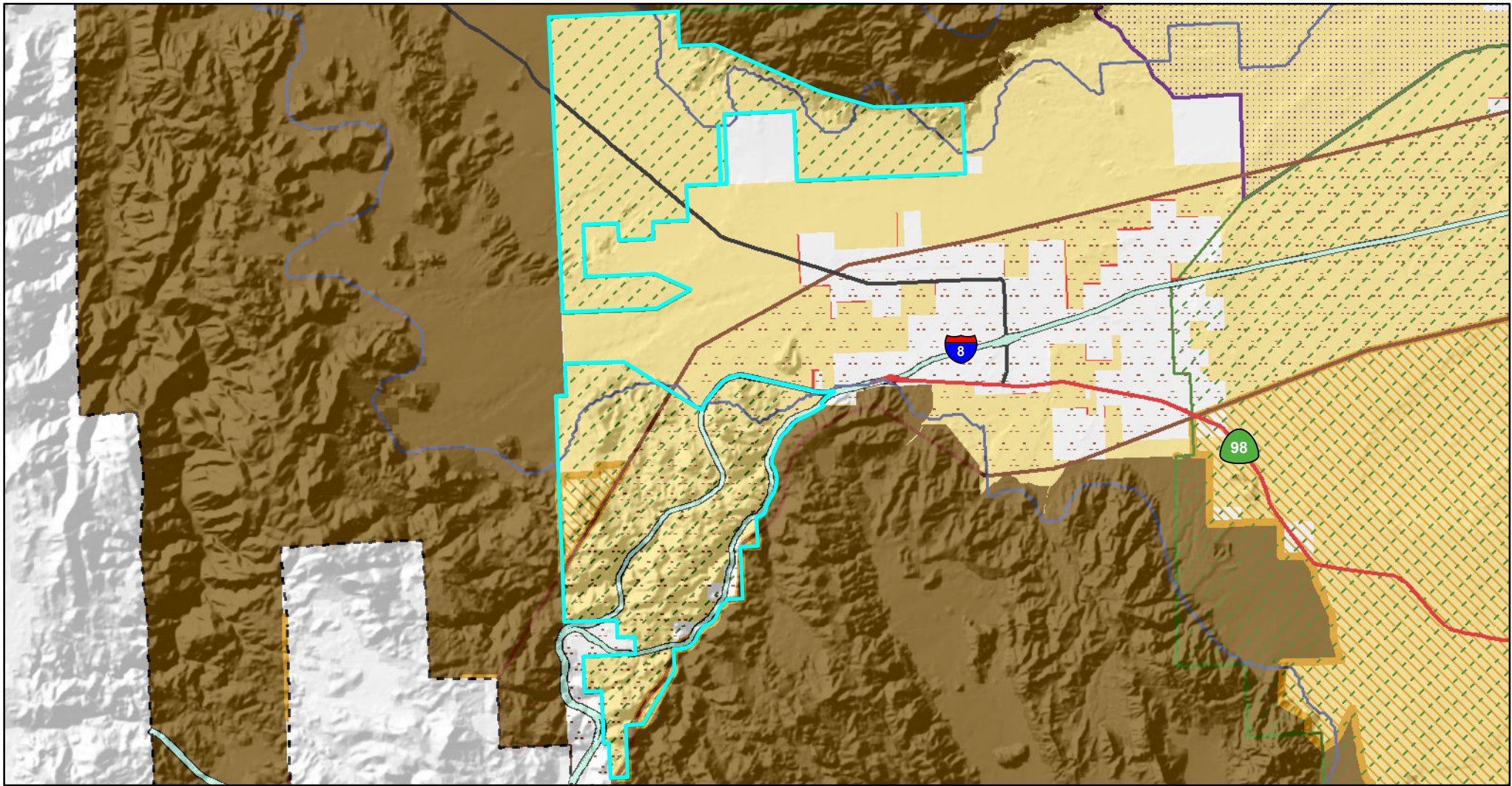
8/27/2015

Draft Map Boundaries Subject to Change

0 1 2  
Miles







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

Transmission Corridor

### Renewable Footprint

Variance Lands

### Land Status

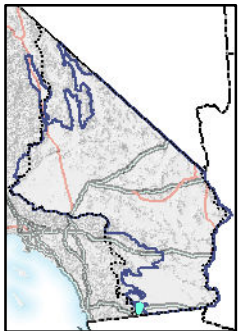
Bureau of Land Management

0 1 2  
Miles

## Ocotillo Alternative 4

8/27/2015

Draft Map Boundaries Subject to Change





### Pilot Knob

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location :** This ACEC is located in southeastern Imperial County adjacent to the California-Arizona-Mexico border.

**Nationally Significant Values:**

**Cultural:** Rare and unusual collections of archaeological sites and features, including geoglyphs and petroglyphs are found within the Pilot Knob ACEC. Many of these sites are listed in the National Register of Historic Places (NRHP). Pilot Knob itself plays a special role in Native American spiritual and traditional culture and is important to the heritage and ethnic identity of the Quechan, Cocopah, and other Indian tribes.

**Scientific:** Prehistoric archaeological sites with scientific information potential that make them eligible for listing in the NRHP are located within this ACEC.

**Special Designations/Management Plan/Date:** ACEC Plan #73/1982

**Relevance and Importance Criteria:**

**Cultural:** The Pilot Knob ACEC contains cultural resources and Native American values which require special management attention. The pristine environment of these values is potentially threatened by visitor use and degradation resulting from casual use.

The values within the ACEC are unique in character. Few cultural resources are located in the southern California Desert which compare to those found within Pilot Knob. Native American concerns are highly significant and relate to Indian heritage values and ethnic identity. The relationship between both resource values marks the ACEC as a special place.

**Overarching Goals:** To protect cultural resources and Native American values while providing for compatible recreational opportunities.

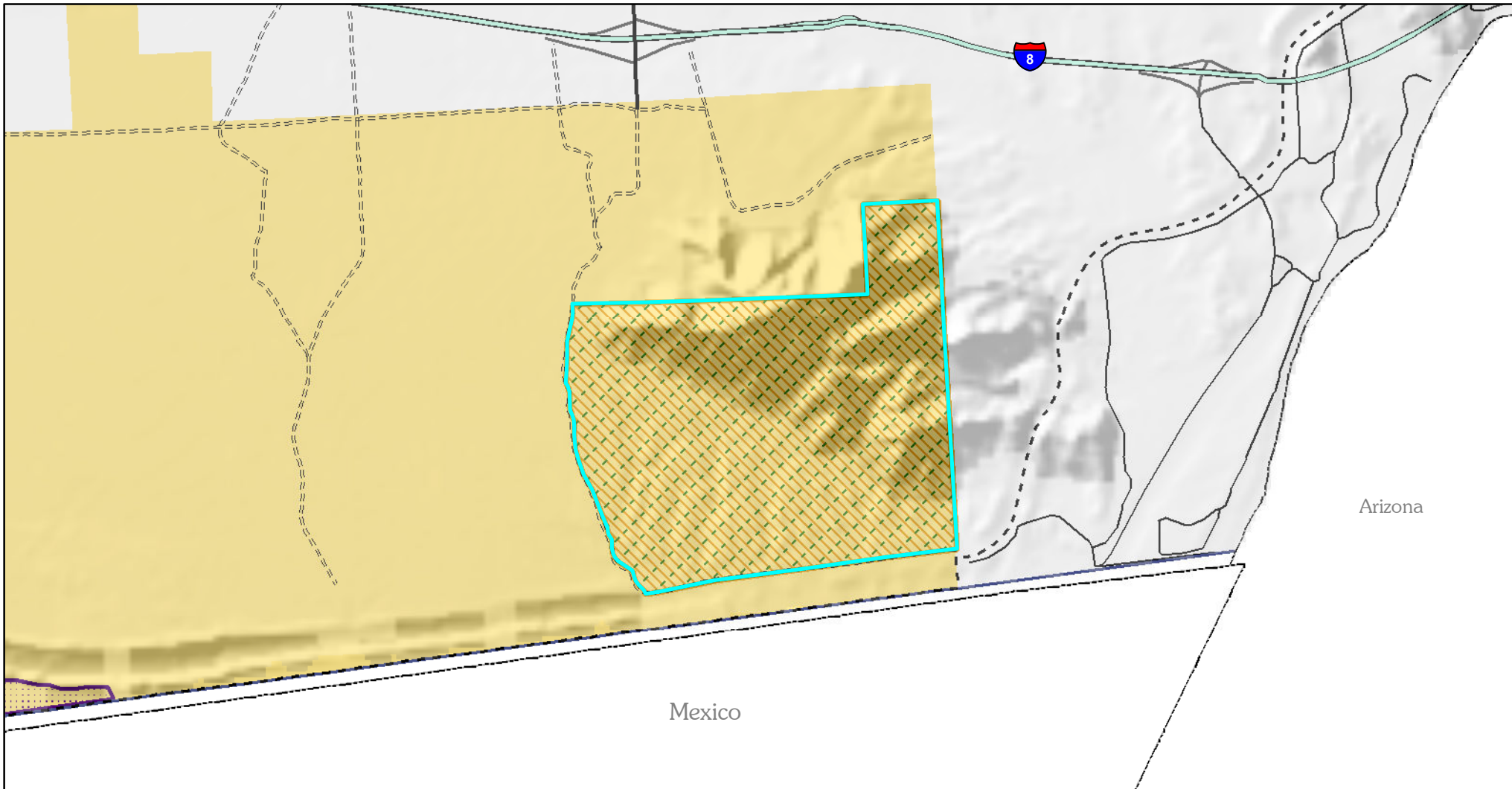
Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

| <b>Designation and Acreage by Alternative:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |                       |                                                  |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|--------------------------------------------------|----------------------|
| Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation             | ACEC Disturbance Cap |
| No Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                                                    | 900                   | 0                                                | NA                   |
| Preferred Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 868                                                  | 900                   | 0                                                | 1%                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                    | 900                   | 0                                                | 1%                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 900                                                  | 900                   | 0                                                | 1%                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                    | 900                   | 0                                                | 1%                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 900                                                  | 900                   | 0                                                | 1%                   |
| <b>* Acreage values are for BLM managed lands</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |                       |                                                  |                      |
| <b>Objectives (desired future condition)/Allowable Uses/Management Actions</b>                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |                       | <b>Resource</b>                                  |                      |
| <p>Objective: Minimize soil disturbance.</p> <p>Objective: Manage the ACEC with the standards for CO, H2S, visibility-reducing particles, and attainment for other criteria in accordance with the standards set by the Imperial County Air Pollution Control District.</p> <p>Management Actions: Coordinate with the Imperial County Air Pollution Control District.</p>                                                                                                             |                                                      |                       | Soil, water, air                                 |                      |
| <p>Objective: Protect and enhance robust populations of both rare and common native plants.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV routes.</p> <p>Management Action: Place signs, kiosks and interpretive information at key recreational sites to better inform the public about the important plant resources.</p> <p>Management Action: Eradicate and control the spread of invasive and noxious weeds.</p>                                   |                                                      |                       | Vegetation (incl. special status species)        |                      |
| <p>Objective: Wildlife species diversity is expected to be relatively low. Species anticipated in the area include but not limited to desert tortoise, burrowing owl, kit fox, and couch's spadefoot toad.</p>                                                                                                                                                                                                                                                                         |                                                      |                       | Fish and Wildlife (incl. special status species) |                      |
| <p>Objective: Provide for highest level of protection of cultural resources and preservation of Native American values.</p> <p>Management Action: Conduct regular patrols and surveillance.</p> <p>Management Action: Install informative signage and kiosks to ensure the public is aware of restrictions.</p> <p>Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the cultural resource values present within the ACEC.</p> |                                                      |                       | Cultural Resources                               |                      |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <p>Management Action: Compile and synthesize existing archaeological data on the area and the artifacts that are of spiritual and cultural importance to Native Americans.</p> <p>Management Action: Continue to monitor the fencing around the ACEC to ensure it is protecting the fragile resources.</p> <p>Management Action: Coordinate with Border Patrol.</p>                                                                                                                                                                                        |                                                                 |
| <p>Objective: Protect fragile cobble surfaces and additional cultural resources from OHV incursions.</p> <p>Management Action: Prohibit camping in the ACEC.</p> <p>Management Action: Increase compliance with routes of travel</p> <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p>                                                                                                                                                                                                             | Trails and Travel Management                                    |
| <p>Objective: Educate public on the significance and fragility of cultural resources and Native American values</p> <p>Action: Develop educational or interpretive program including a slide-tape presentation</p> <p>Objective: Allow compatible recreational activities that can be accommodated while preserving and protecting cultural resources such as hiking, bird watching, etc.</p> <p>Management Action: Install informative signage and kiosks at various appropriate locations within the ACEC.</p>                                           | Recreation                                                      |
| <p>Objective: Consolidate through tenure adjustment.</p> <p>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.</p>                                                                                                                                                                                                                                                                                                                                                                                              | Land Tenure                                                     |
| <p>Objective: Protect resource values of the ACEC</p> <p>Management Action: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.</p>                                                                                                                                                                                                                                                                                      | Rights of Way                                                   |
| <p>Objective: Minimize potential impacts from energy-related exploration and development</p> <p>Management Action: Closed to renewable energy development.</p> <p>Geothermal: ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation.</p>                                                                                                                                                                 | Renewable Energy                                                |
| <p>Objective: Minimize potential impacts from exploration and development of saleable mineral material within Pilot Knob ACEC.</p> <p>Allowable Uses: Oil and gas exploration allowed with stipulations. Permit geothermal explorations with stipulations which protect cultural resources.</p> <p>No active or inactive mining claims.</p> <p>Management Actions: Prohibit extraction of saleable mineral materials including common varieties of sand, stone, gravel, pumice, pumicite, cinder, clay and other mineral materials and petrified wood.</p> | Locatable Minerals<br>Mineral Materials<br>Non-Energy Leasables |



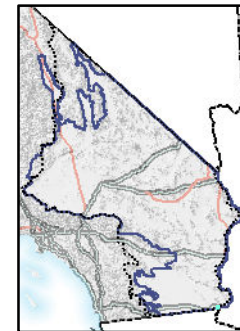
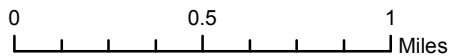
### Conservation Footprint

- |  |                             |  |                |                           |
|--|-----------------------------|--|----------------|---------------------------|
|  | National Conservation Lands |  | DRECP Boundary | <b>Land Status</b>        |
|  | ACEC Boundaries             |  | CDCA Boundary  |                           |
|  | 1% Disturbance Cap          |  | OHV Boundary   | Bureau of Land Management |

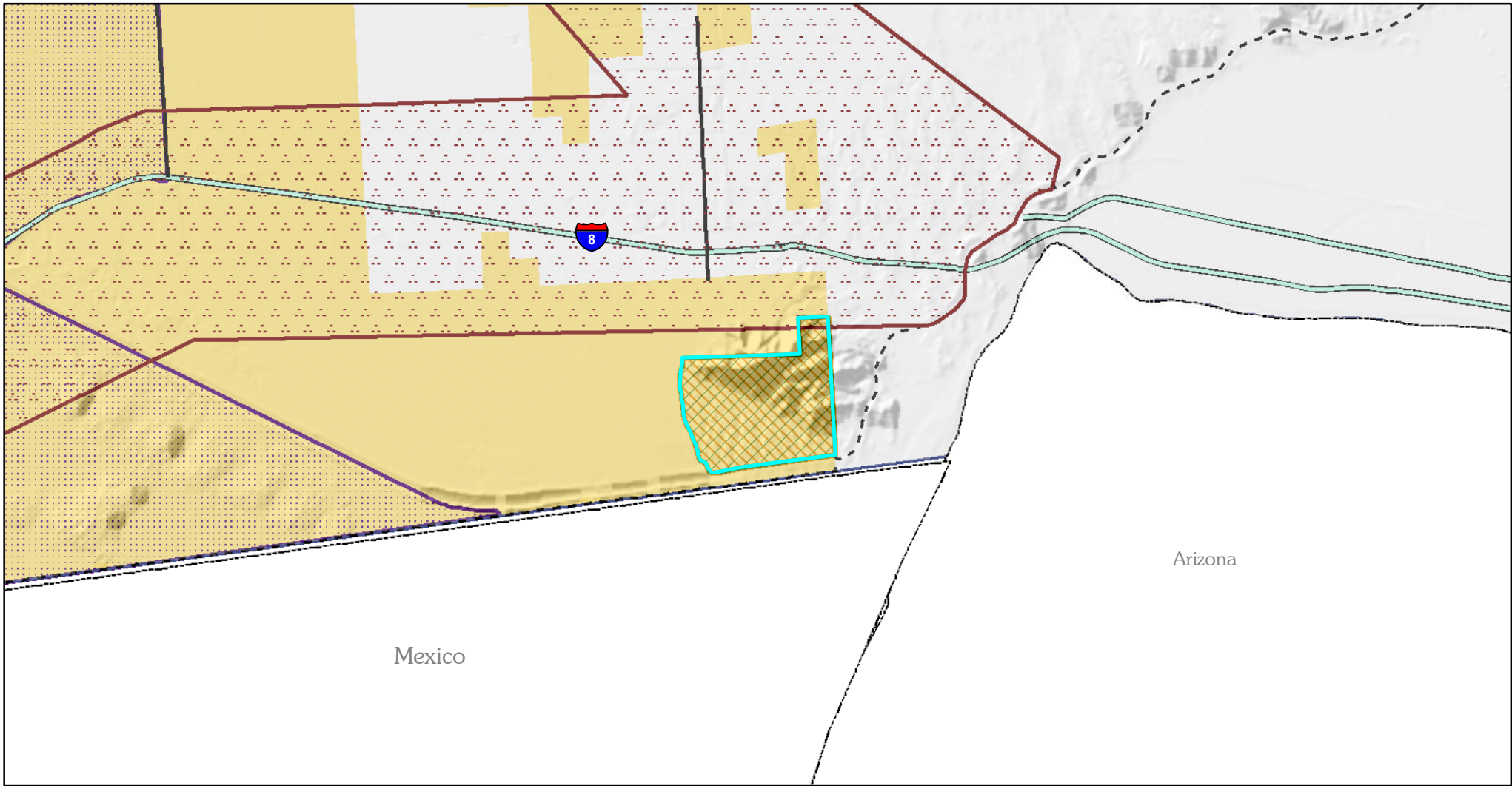
### Pilot Knob

6/24/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

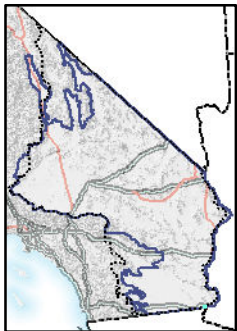
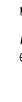
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|------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|-----------------------|--------------------|-------------------------------------------------------------------------------------|---------------------------|
|  | National Conservation Lands |  | DRECP Boundary        | <b>Land Status</b> |  | Bureau of Land Management |
|  | Proposed ACEC               |  | CDCA Boundary         |                    |                                                                                     |                           |
|                                                                                    |                             |  | Transmission Corridor |                    |                                                                                     |                           |
|                                                                                    |                             |  | OHV Boundary          |                    |                                                                                     |                           |

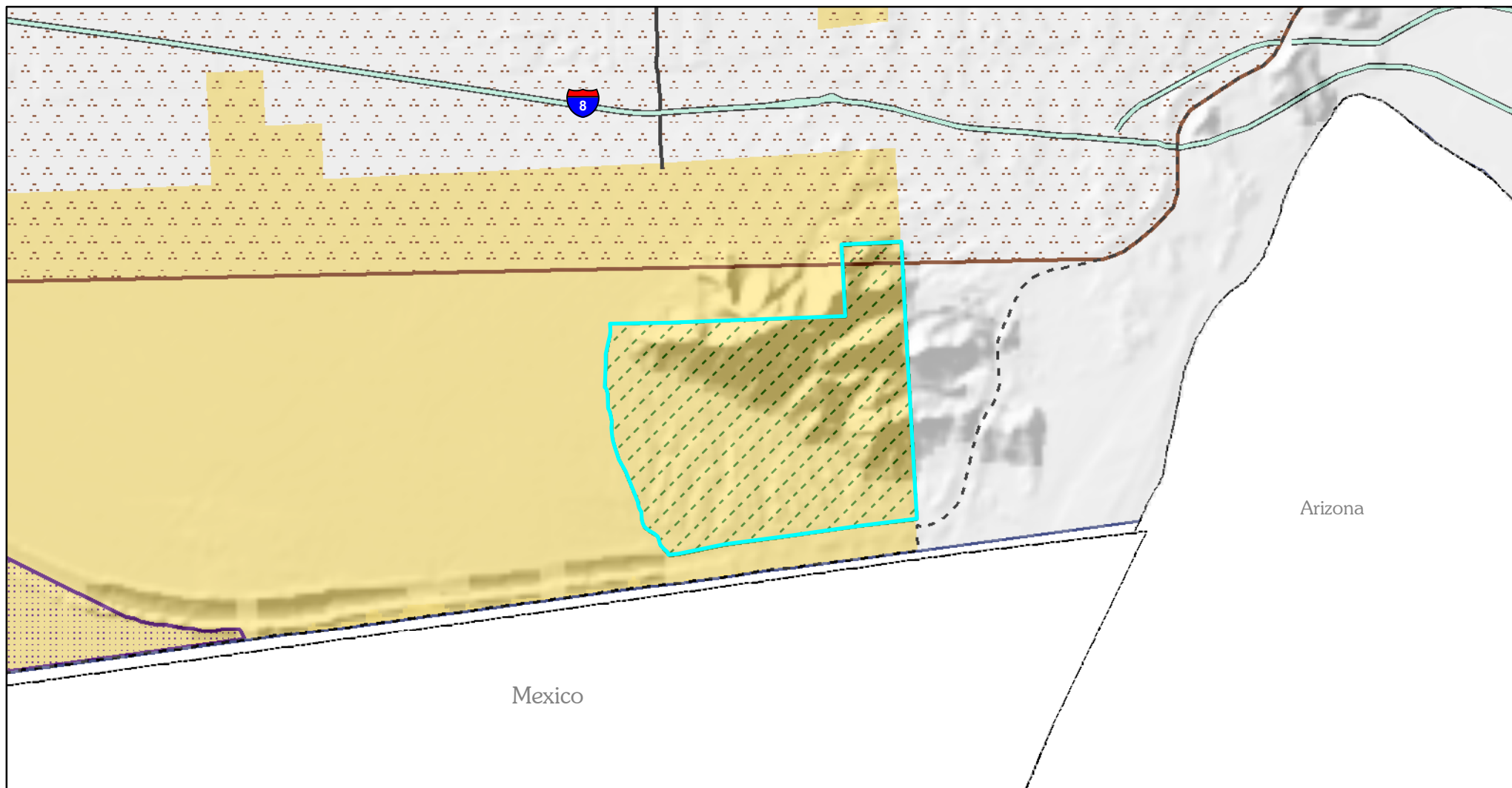
### Pilot Knob

7/14/2015

Draft Map Boundaries Subject to Change

0 1 2  
Miles





### Conservation Footprint

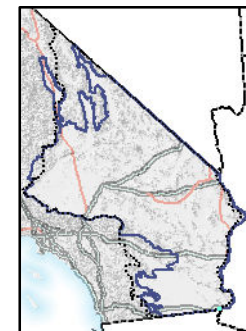
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|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <p>ACEC Boundaries</p> <p> 1% Disturbance Cap</p> | <p>DRECP Boundary</p> <p></p> <p>CDCA Boundary</p> <p></p> <p>Transmission Corridor</p> <p></p> <p>OHV Boundary</p> <p></p> | <p>Land Status</p> <p> Bureau of Land Management</p> |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|

0 0.5 1 Miles

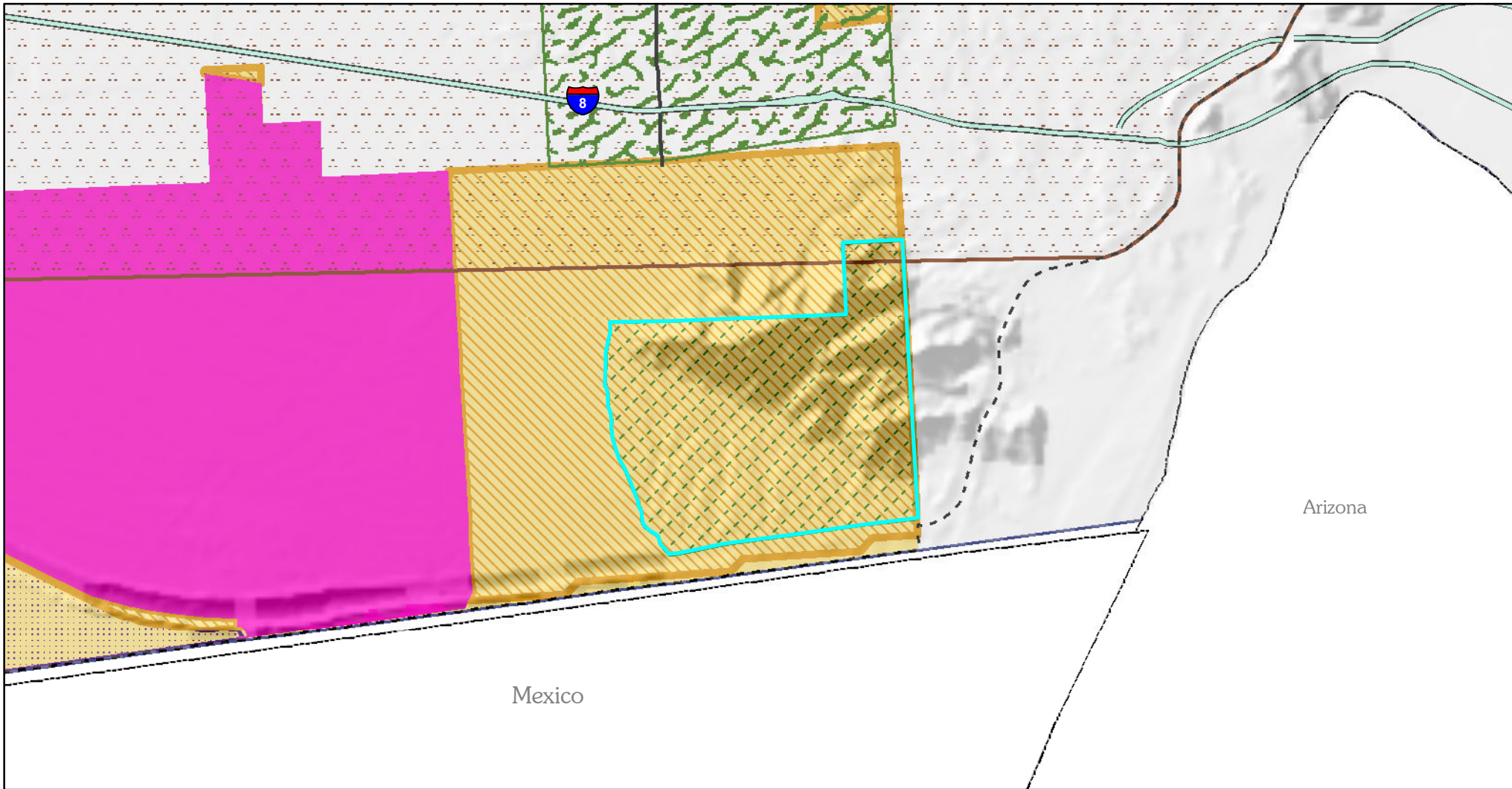
### Pilot Knob Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

 National Conservation Lands

ACEC Boundaries

 0.1% Disturbance Cap

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 Transmission Corridor

 OHV Boundary

Renewable Footprint

 Development Focus Areas

Land Status

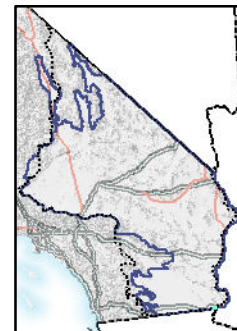
 Bureau of Land Management

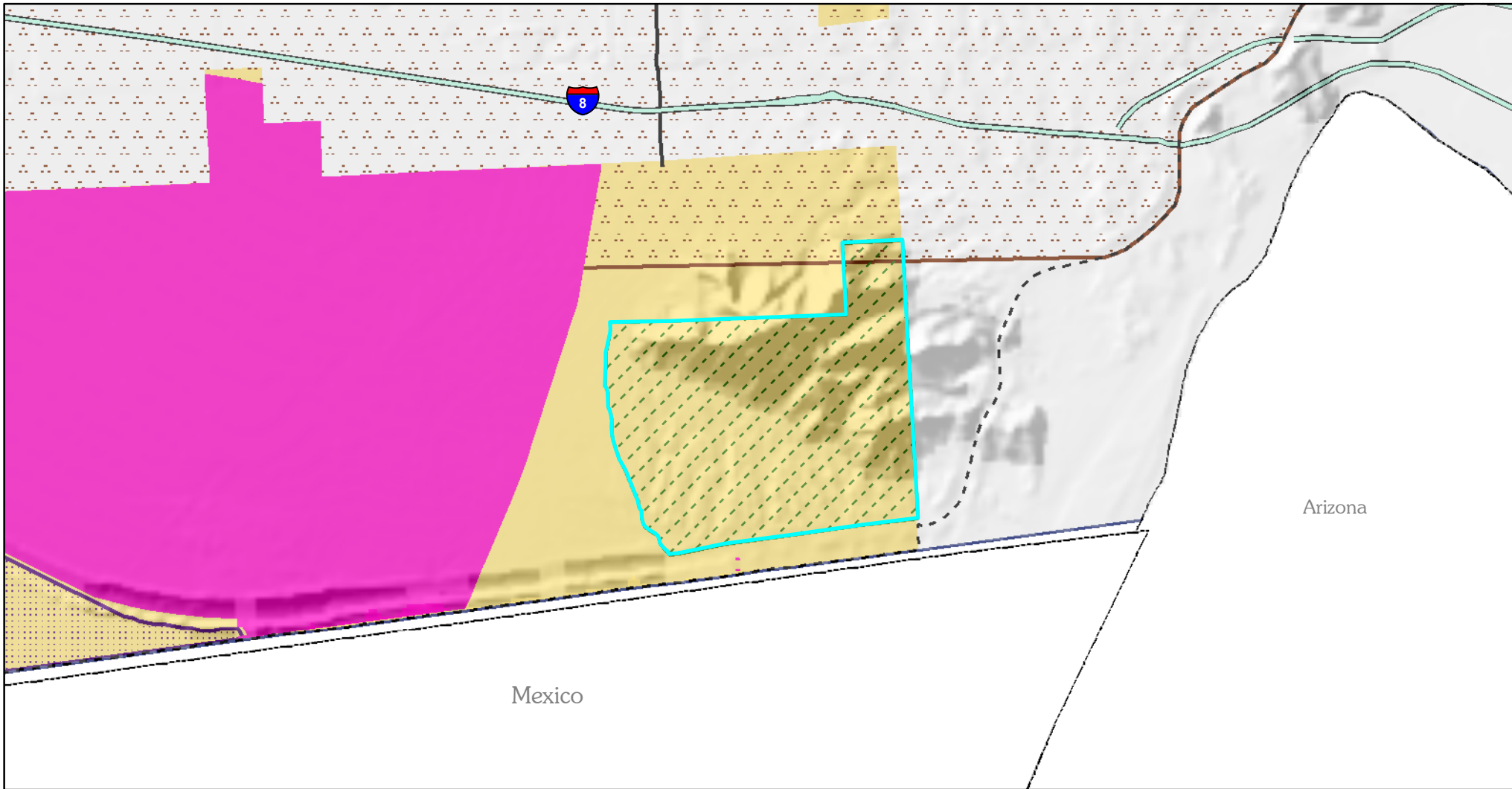
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### Pilot Knob Alternative 2

8/26/2015

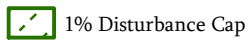
Draft Map Boundaries Subject to Change





### Conservation Footprint

#### ACEC Boundaries



DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

#### Renewable Footprint

Development Focus Areas

#### Land Status

Bureau of Land Management

0 0.25 0.5  
Miles

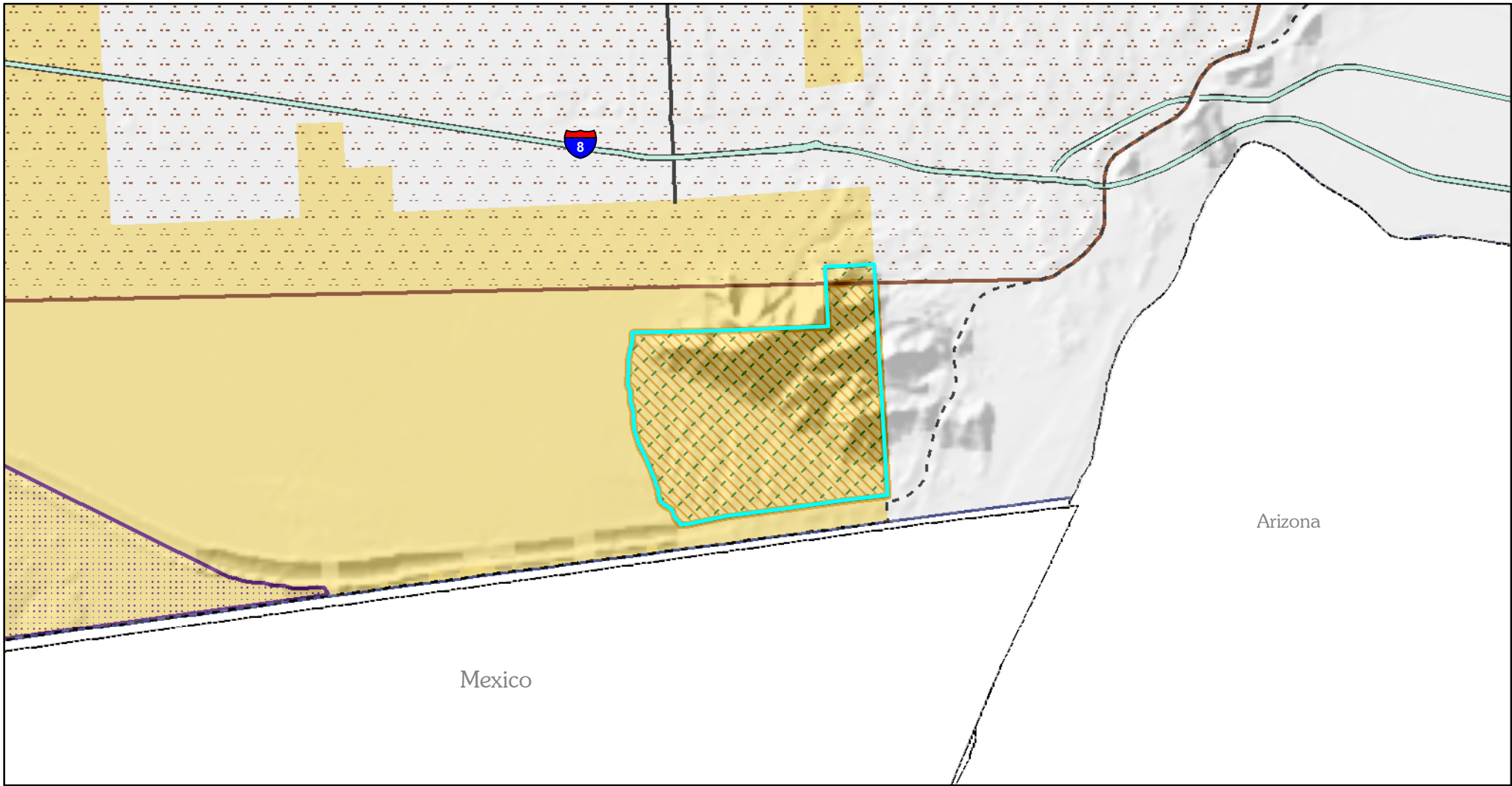
## Pilot Knob Alternative 3

8/27/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

- |                                                                                                               |                                                                                                           |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  National Conservation Lands |  DRECP Boundary        |
|  ACEC Boundaries             |  CDCA Boundary         |
|  1% Disturbance Cap          |  OHV Boundary          |
|                                                                                                               |  Transmission Corridor |

### Land Status

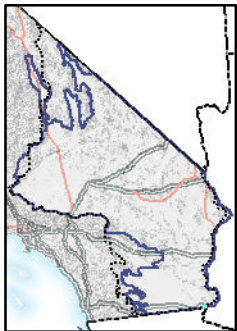
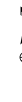
- |                                                                                                               |
|---------------------------------------------------------------------------------------------------------------|
|  Bureau of Land Management |
|---------------------------------------------------------------------------------------------------------------|

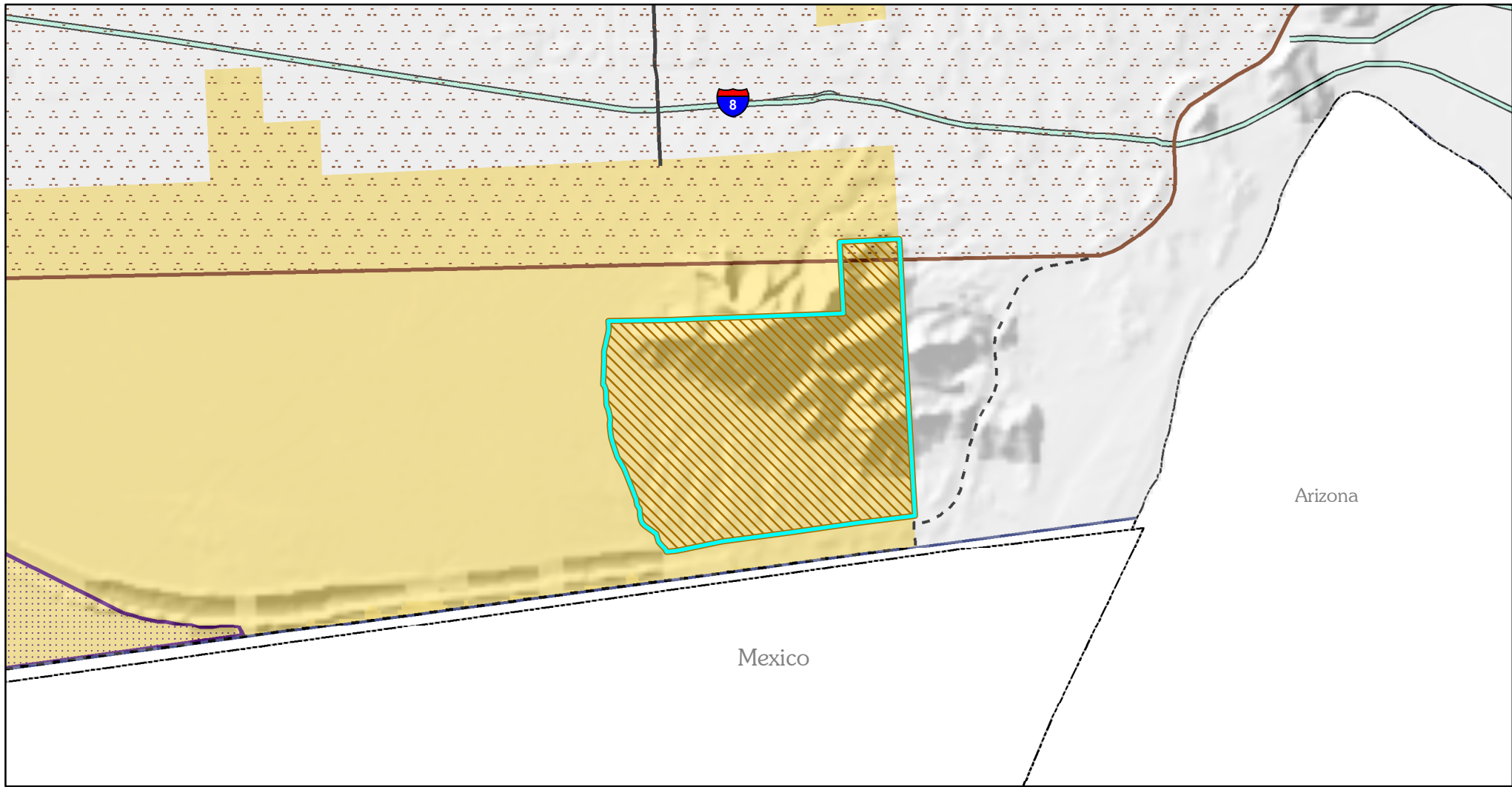
## Pilot Knob Alternative 4

8/27/2015

Draft Map Boundaries Subject to Change

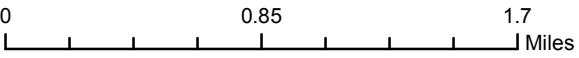
0 0.25 0.5  
Miles





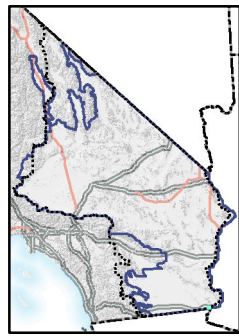
Conservation Footprint

- |                                                                                                         |                                                                                                               |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Existing ACEC         | <b>Land Status</b>                                                                                            |
|  Transmission Corridor |  Bureau of Land Management |
|  CDCA Boundary         |                                                                                                               |
|  DRECP Boundary        |                                                                                                               |
|  OHV Boundary          |                                                                                                               |



Pilot Knob  
No Action  
9/15/2015

Draft Map Boundaries Subject to Change





## Plank Road

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location:** The Plank Road ACEC is located in south central Imperial County, at the western edge of the Imperial Sand Dunes, between I-8 and the international border.

**Nationally Significant Values:** Not proposed for NLCS designation.

**Special Designations/Management Plan/Date:** ACEC Plan #72 Plank Road/ 1985

### Relevance and Importance Criteria:

**Cultural:** The Plank Road – the only wooden automobile road in existence in the US – was constructed in 1915, in an effort to create a more direct route from Yuma, Arizona to San Diego, California. It was in use until 1926, when the California Highway Commission constructed a paved road (Highway 80) as a permanent solution to maintenance and traffic problems the Plank Road posed. It is currently listed in the California Register of Historic Places and is a California Historical Landmark. It has also been proposed for listing in the National Register of Historic Places (NRHP).

Remaining portions of the Plank Road are extremely susceptible to damage. The original documentation prepared for this ACEC in 1979 stated that the Plank Road could be easily protected because of its remote location. Preparers of the CDCA did not foresee the high numbers of users of all-terrain vehicles (ATVs).

Today, thousands of people travel to the sand dunes for camping and off-road vehicle recreation. Consequently, the road has suffered heavy losses from vandalism and from uninformed visitors scavenging old planks for firewood. Segments of the ACEC have been damaged from vehicles.

The road stands as a tribute to our early accomplishments in transportation technology. The wooden route represents an unusual solution to an early problem of safely crossing the sand dunes. While only a few other examples are known, it is believed that the Plank Road is the only one which still exists. The Plank Road, as a historic resource, is an engineering curiosity and marvel. It is a graphic reminder of Imperial County's heritage.

**Overarching Goals:** To protect cultural resource values while providing for compatible recreational opportunities.

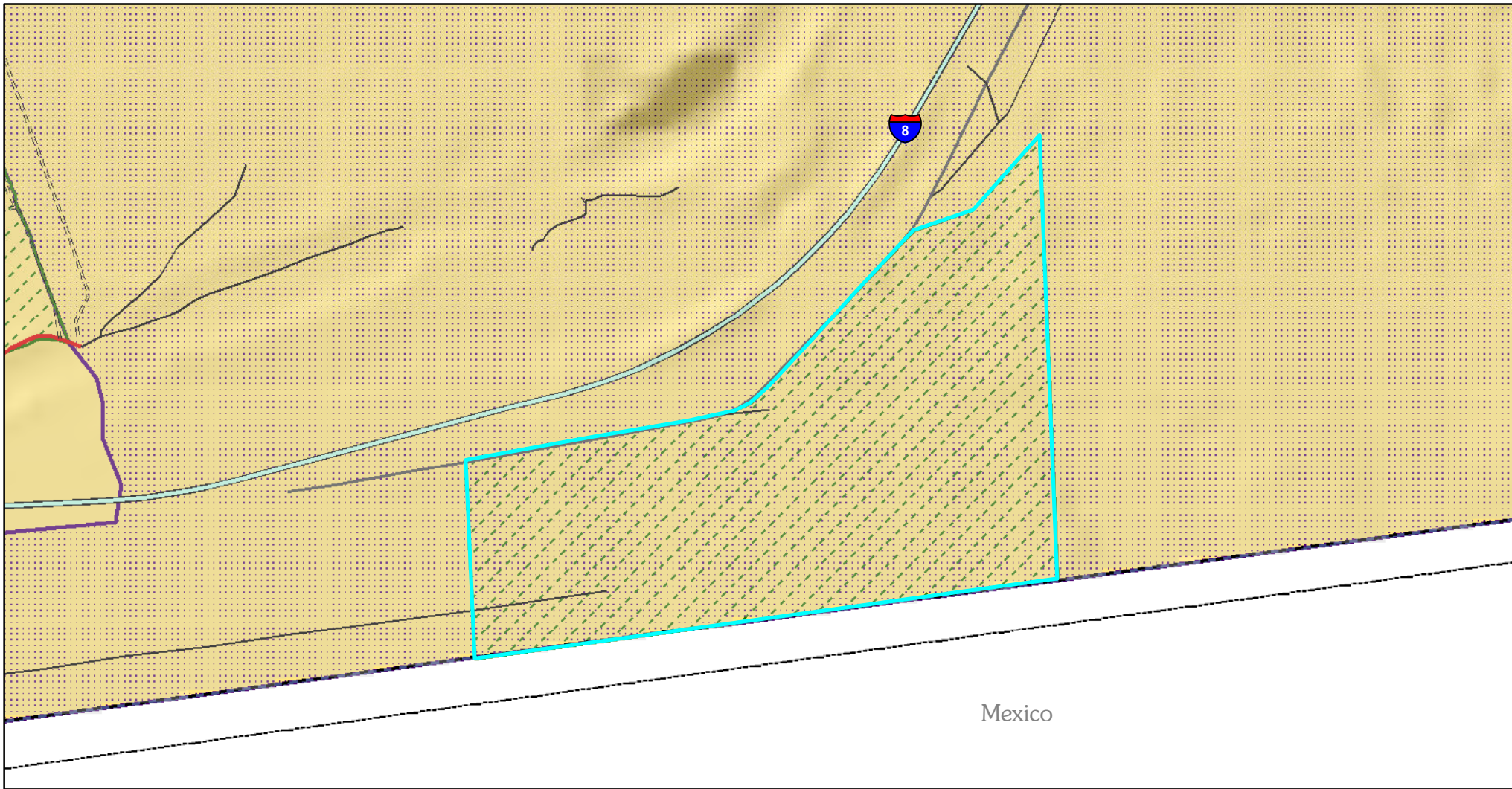
Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

| <b>Designation and Acreage by Alternative:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |                       |                                                  |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|--------------------------------------------------|----------------------|
| Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation             | ACEC Disturbance Cap |
| No Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                    | 300                   | 0                                                | NA                   |
| Preferred Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0                                                    | 300                   | 0                                                | 1%                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                    | 300                   | 0                                                | 1%                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 300                                                  | 300                   | 0                                                | 1%                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                    | 300                   | 0                                                | 1%                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                    | 300                   | 0                                                | 1%                   |
| <b>* Acreage values are for BLM managed lands</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |                       |                                                  |                      |
| <b>Objectives (desired future condition)/Allowable Uses/Management Actions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |                       | <b>Resource</b>                                  |                      |
| Objective: Minimize soil disturbance. Preserve existing air quality.<br><br>Management Actions: Coordinate with the Imperial County Air Pollution Control District.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |                       | Soil, water, air                                 |                      |
| Objective: Conserve and/or recover ESA-listed species and the ecosystems on which they depend so that ESA protections are no longer needed for these species.<br>Management Action: Initiate proactive conservation measures that reduce or eliminate threats to BLM sensitive species to minimize the likelihood of and need for listing of these species under the ESA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |                       | Fish and Wildlife (incl. special status species) |                      |
| See programmatic ACEC cultural resources objective and action items in general cultural resources rules.<br><br>Objective: Protect, preserve, and interpret the remaining portions of the Plank Road.<br>Management Action: Monitor existing fencing around the interpretive display.<br>Management Action: Rehabilitate damaged segments of the Plank Road within Grays Well segment or arrest the current decay.<br>Management Action: Clear vegetation growing on road segments.<br>Management Action: Remove and replace old, damaged interpretive signs.<br>Management Action: Redesign interpretive brochure.<br>Management Action: Celebrate and commemorate the Plank Road centennial.<br>Management Action: Conduct patrols and surveillance.<br>Management Action: Revise previous nomination package for listing in the NRHP and correct the edits requested by the Keeper.<br><br>Objective: Preserve separate eastern segment of Plank Road. |                                                      |                       | Cultural Resources                               |                      |



|                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Management Action: Leave a segment of the Plank Road buried to reduce vandalism. Periodically monitor to ensure it is stable.                                                                                                                                                                                                                                                                       |                                                                 |
| Motorized open OHV area                                                                                                                                                                                                                                                                                                                                                                             | Trails and Travel Management                                    |
| Objective: Educate public on the significant cultural and historic values of the Plank Road.<br>Management Action: Continue to implement interpretive programs and upgrade existing interpretive infrastructure including waysides, signs, and brochure.<br>Management Action: Coordinate with California Department of Transportation, and others, to promote the BLM Plank Road Interpretive area | Recreation                                                      |
| Objective: Consolidate through tenure adjustment.<br>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.                                                                                                                                                                                                                                                  | Land Tenure                                                     |
| Multiple ROWs – transmission lines, highways and an irrigation canal.<br>Objective: Protect resource values of the ACEC<br>Management Action: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.                                                                 | Rights of Way                                                   |
| Closed to renewable energy development.<br>Geothermal: ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation.                                                                                                                                     | Renewable Energy                                                |
| Withdrawn from mineral entry<br><br><b>Objective:</b> Continuous withdrawal from mineral entry.<br><br><b>Management Action:</b> Continuous restriction on filling of mining claims in the area thus preventing mineral exploration and development.                                                                                                                                                | Locatable Minerals<br>Mineral Materials<br>Non-Energy Leasables |



### Conservation Footprint

#### ACEC Boundaries

1% Disturbance Cap

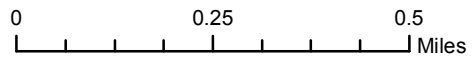
DRECP Boundary

CDCA Boundary

OHV Boundary

#### Land Status

Bureau of Land Management



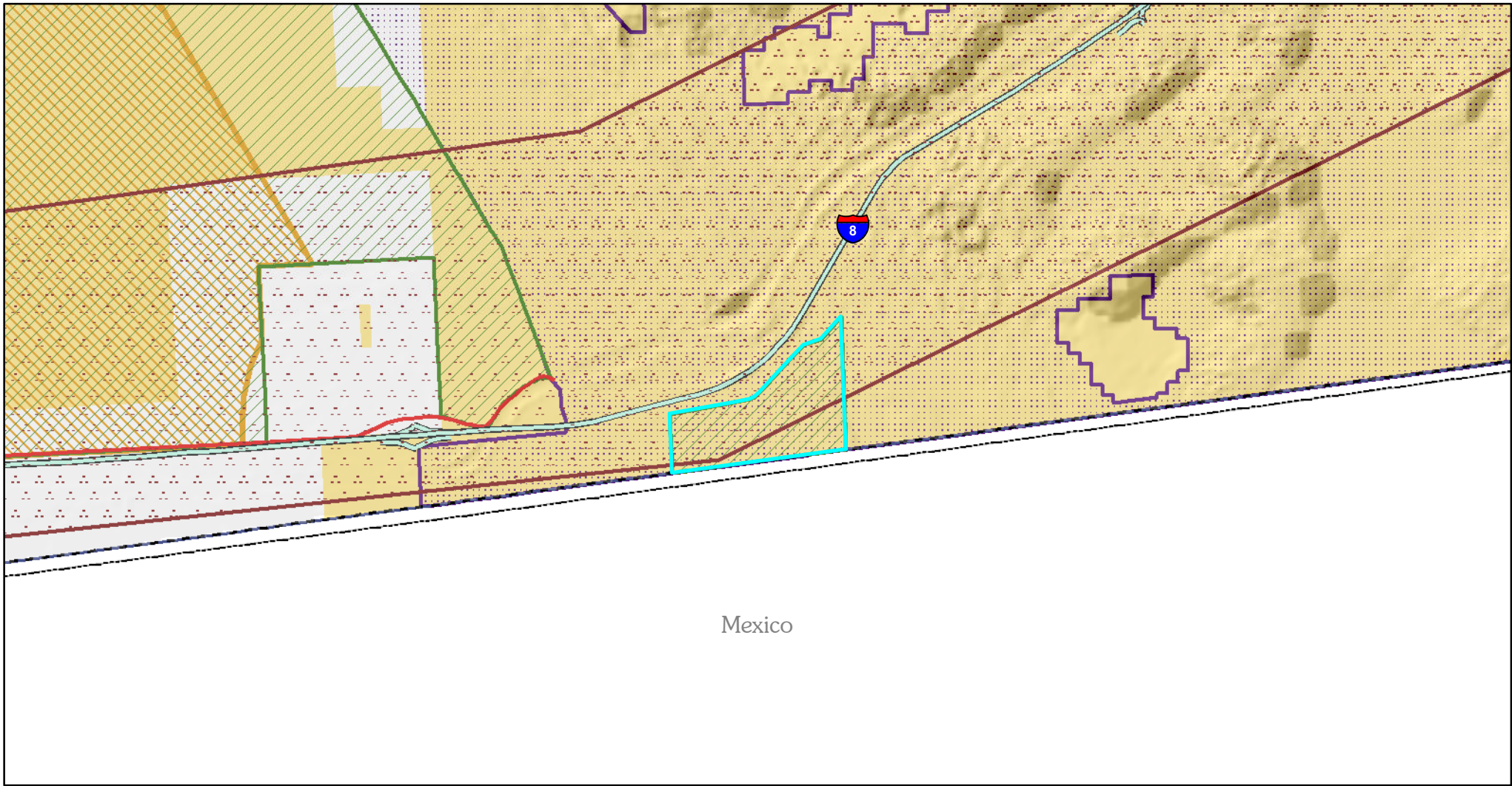
### Plank Road

6/24/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

-  National Conservation Lands
-  Proposed ACEC

-  DRECP Boundary

-  CDCA Boundary

-  Transmission Corridor

-  OHV Boundary

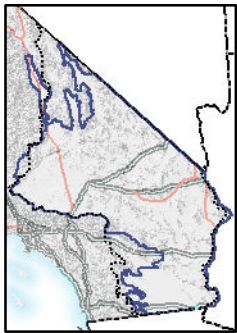
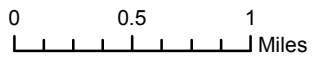
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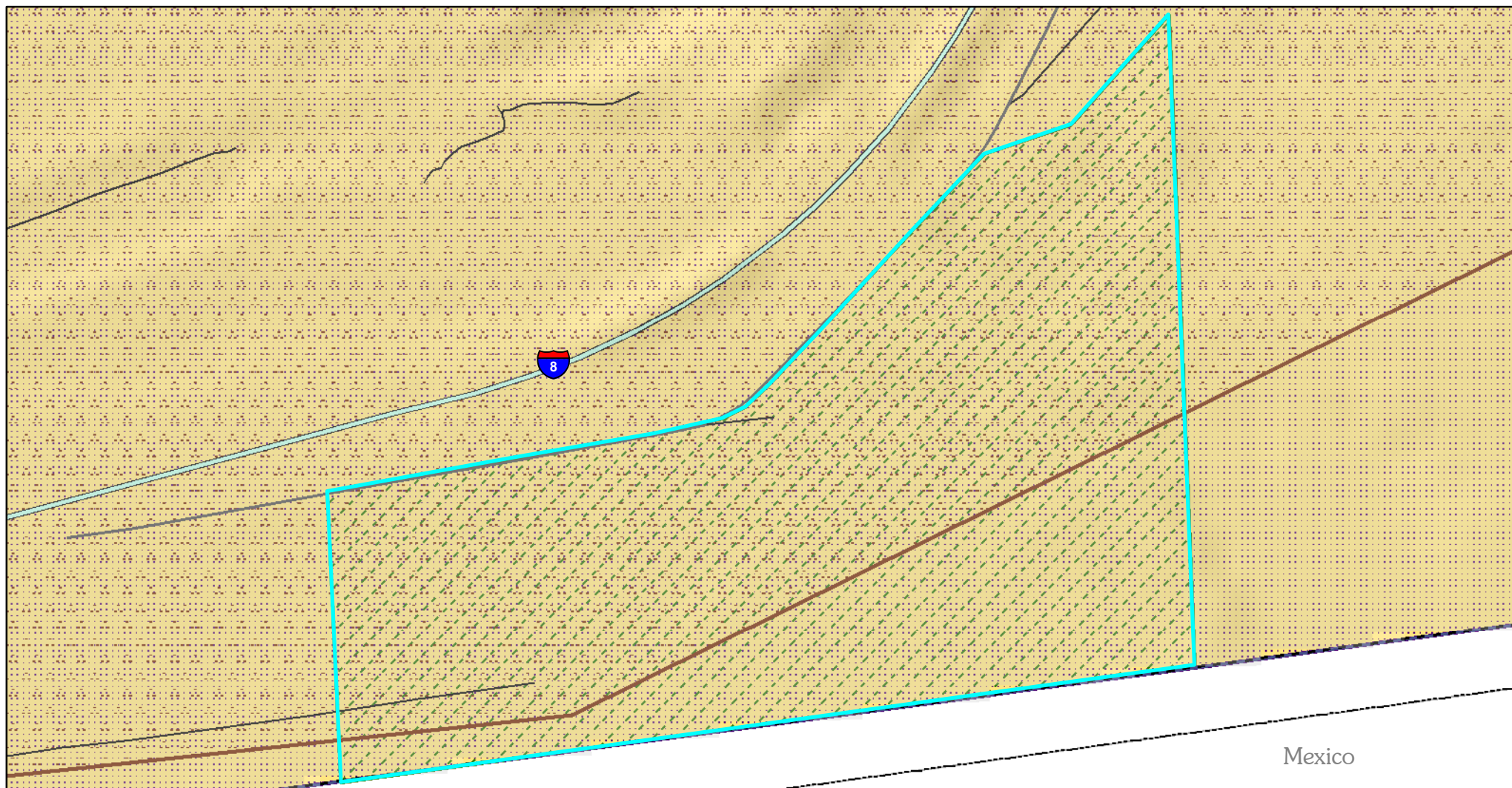
-  Bureau of Land Management

## Plank Road

7/14/2015

Draft Map Boundaries Subject to Change





# Conservation Footprint

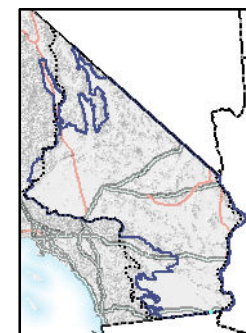
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|--------------------|-----------------------|---------------------------|
| ACEC Boundaries    | DRECP Boundary        | Land Status               |
| 1% Disturbance Cap | CDCA Boundary         | Bureau of Land Management |
|                    | Transmission Corridor |                           |
|                    | OHV Boundary          |                           |

0 0.1 0.2 Miles

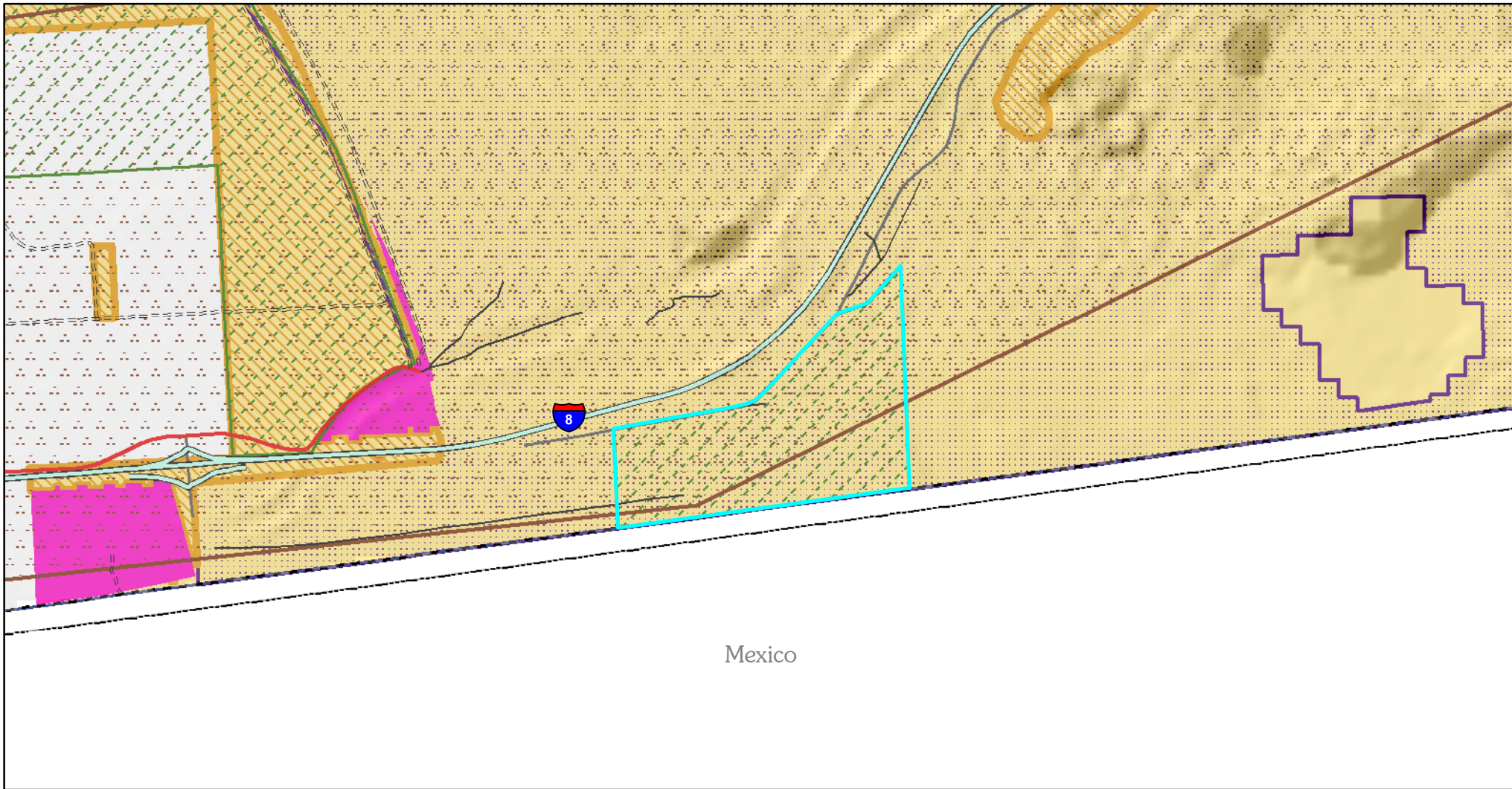
## Plank Road Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

National Conservation Lands

ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

Bureau of Land Management

0 0.25 0.5  
Miles

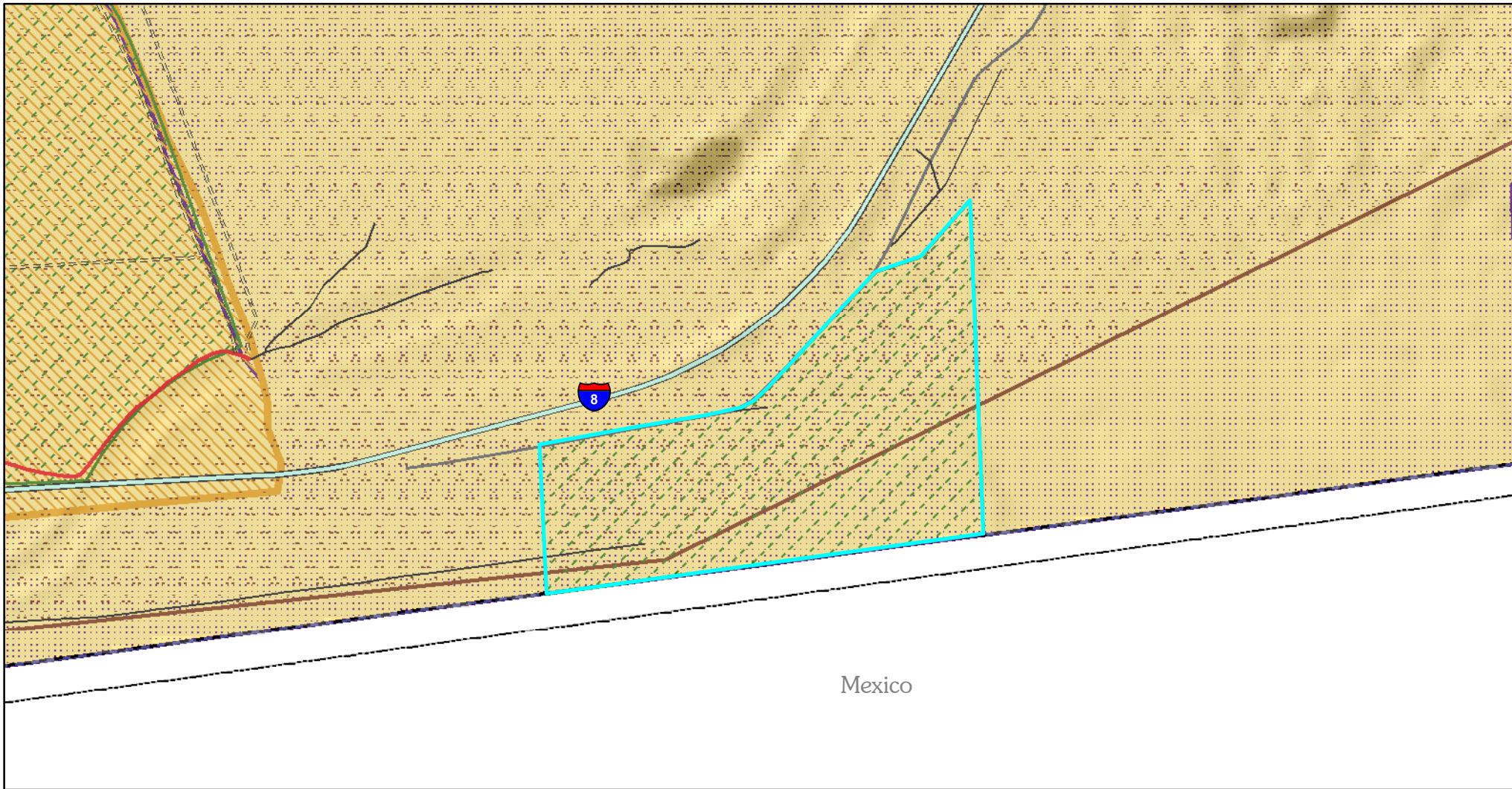
## Plank Road Alternative 2

8/26/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

- |                             |                       |                           |
|-----------------------------|-----------------------|---------------------------|
| National Conservation Lands | DRECP Boundary        | <b>Land Status</b>        |
| <b>ACEC Boundaries</b>      | CDCA Boundary         | Bureau of Land Management |
| 1% Disturbance Cap          | Transmission Corridor |                           |
|                             | OHV Boundary          |                           |

0 0.25 0.5  
Miles

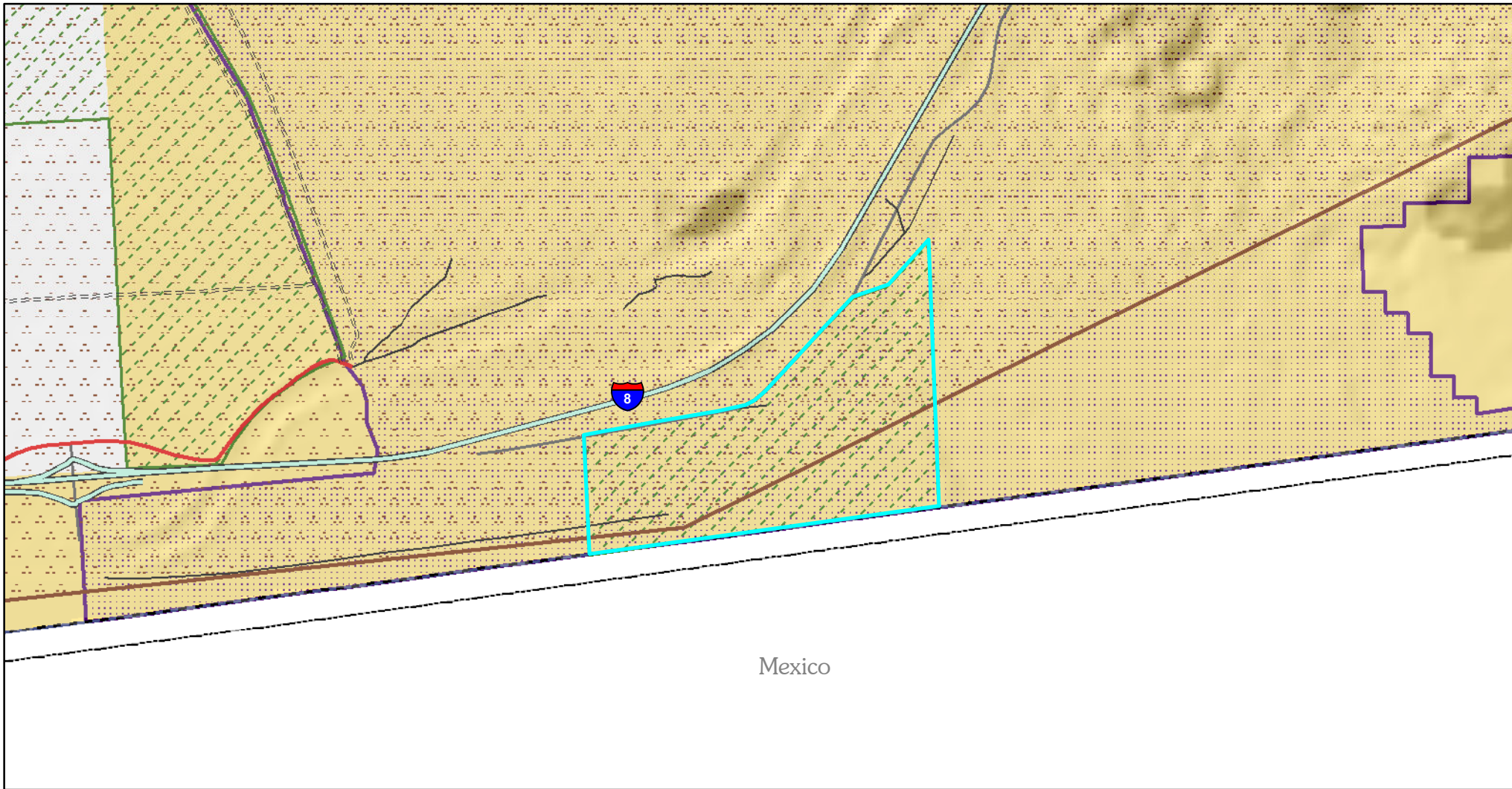
### Plank Road Alternative 3

8/27/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

#### ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

Transmission Corridor

#### Land Status

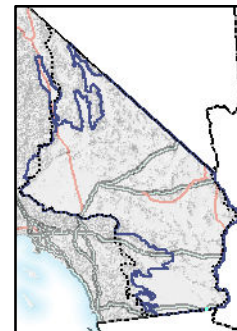
Bureau of Land Management

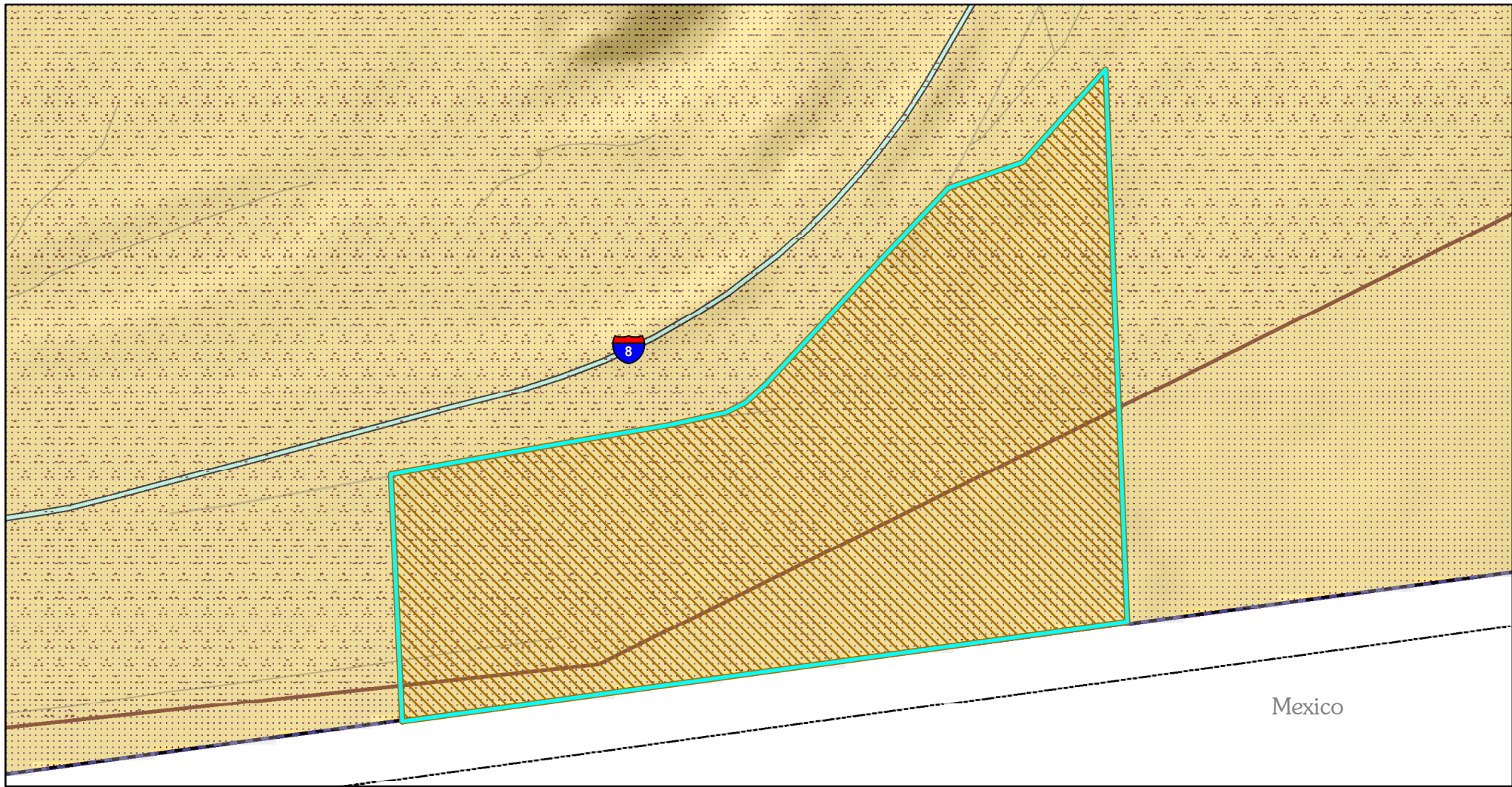
0 0.25 0.5  
Miles

## Plank Road Alternative 4

8/27/2015

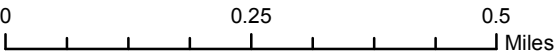
Draft Map Boundaries Subject to Change





### Conservation Footprint

- |                                                                                                          |                                                                                                               |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Existing ACEC         | <b>Land Status</b>                                                                                            |
|  Transmission Corridor |  Bureau of Land Management |
|  CDCA Boundary         |                                                                                                               |
|  DRECP Boundary        |                                                                                                               |
|  OHV Boundary          |                                                                                                               |

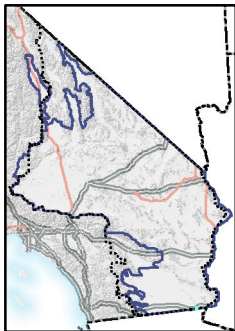


### Plank Road

### No Action

9/15/2015

Draft Map Boundaries Subject to Change





## Salton Sea Hazardous

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location:** This proposed ACEC is located along the southwest shore of the Salton Sea in Imperial County and contains 21,587 acres – about two thirds of which are under water. It is the location of the former Salton Sea Naval Air Facility, established for World War II military testing activities.

**Nationally Significant Values:** Not proposed for NCLS designation in preferred alternative.

**Special Designations/Management Plan/Date:** DRECP/(Integrated Resource Management Plan for Acquired and Withdrawn Lands on the Salton Sea Test Base, Imperial County, California/May 1995)

**Relevance and Importance Criteria:** This ACEC is closed to the public due to hazardous unexploded ordnance and is not considered for any public use or application for public undertakings. Originally established by the Department of the Navy (Navy) as the Salton Sea Naval Air Facility in 1942, the area was used for seaplane and bombing range operations, rocket development work, and testing of jet engine and propellants mixtures, and later for high altitude Army-Navy land and sea bombing experiments. The Atomic Energy Commission assumed jurisdiction of the land and administration of the Facility in 1947 until 1964. During this time, the Facility was used to evaluate the effects of long-term storage of atomic weapons in natural environments, and was also used for tests of the Mercury space capsule's landing system. In July 1993, the Navy notified agencies of the Department of the Interior (DOI) of their consideration to dispose of the facility, in accordance with the Defense Closure Act of 1988, and prepare an integrated management plan providing for management of the acquired lands by the BLM on behalf of the DOI through PLO Section 204 of the FLPMA.

Most of the land immediately adjacent to the north, west, and south of this ACEC is uninhabited, nonagricultural desert. Lands located within the ACEC are withdrawn from mineral entry; however, the CDCA identified the area as "prospectively valuable" for leasable minerals (oil, gas, and geothermal), and with moderate to high potential for saleable minerals (sand and gravel).

The Salton Sea is the only source of surface water in the ACEC and it is possible that pollutants (e.g., increasing concentrations of salt, selenium, sewage, pesticides, detergents, etc.) from dump sites on the former test base are leaching into the Sea, affecting its overall water quality. San Felipe Creek is the only perennial major stream that crosses the ACEC, flowing generally eastward from the adjacent mountains through San Sebastian March and into the Salton Sea.

**Overarching Goals:** To protect and preserve the cultural and biological resources, protecting the public from potential safety issues associated with unexploded ordnance, and maintaining closure of the area to the public.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special

Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

**Designation and Acreage by Alternative:**

| Alternative           | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation | ACEC Disturbance Cap |
|-----------------------|------------------------------------------------------|-----------------------|--------------------------------------|----------------------|
| No Action             | 0                                                    | 0                     | 0                                    | NA                   |
| Preferred Alternative | 0                                                    | 7,100                 | 0                                    | 0.10%                |
| 1                     | 0                                                    | 6,840                 | 0                                    | 0.10%                |
| 2                     | 6,503                                                | 6,830                 | 0                                    | 0.10%                |
| 3                     | 0                                                    | 6,840                 | 0                                    | 0.10%                |
| 4                     | 0                                                    | 6,840                 | 0                                    | 0.10%                |

\* Acreage values are for BLM managed lands

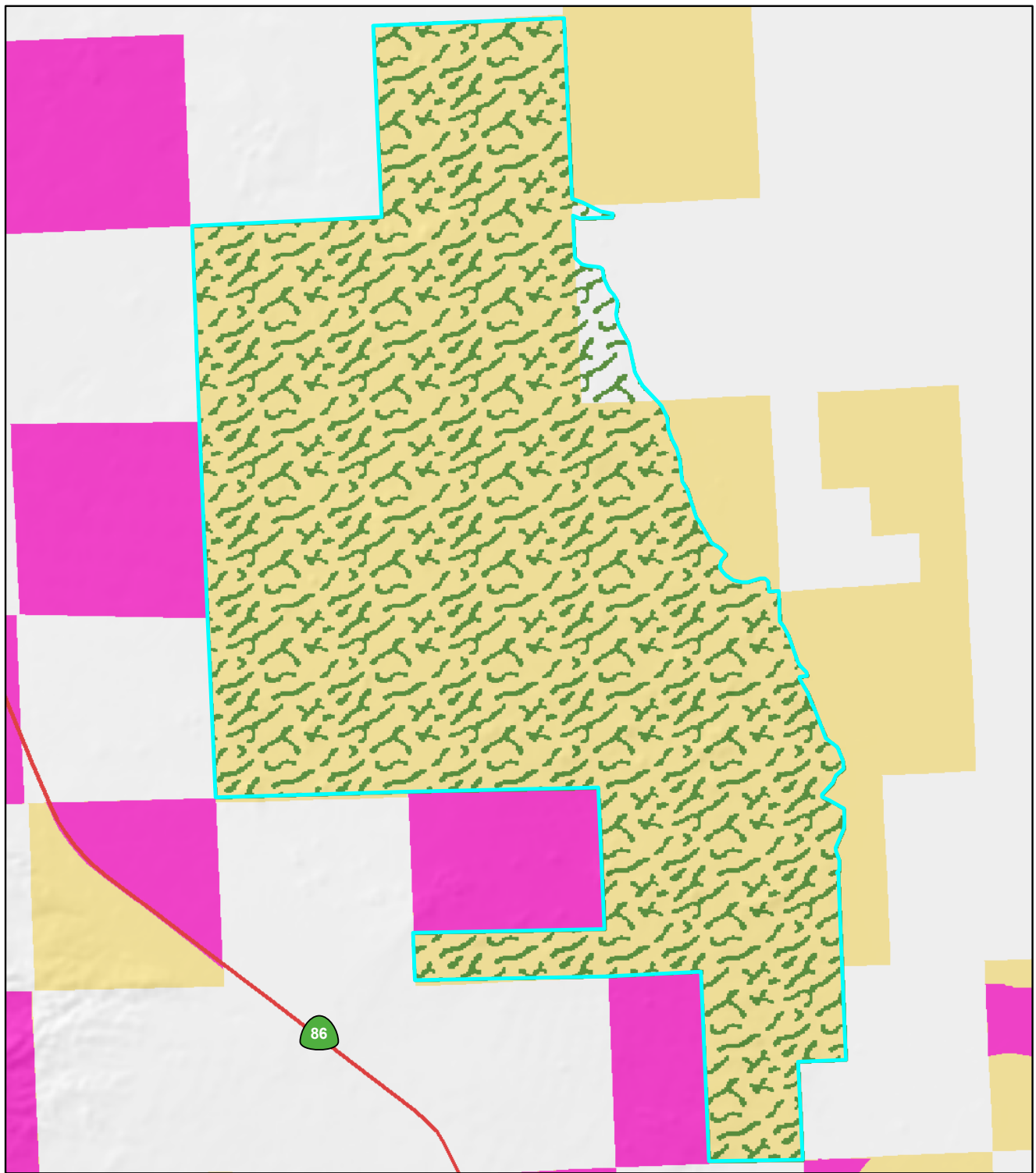
| Objectives (desired future condition)/Allowable Uses/Management Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Resource                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <p>Objective: Minimize soil disturbance.</p> <p>Objective: Protect air quality and visibility standards in accordance with the Southeast Desert Air Basin nonattainment for O<sub>3</sub> and PM<sub>10</sub>.</p> <p>Management Action: Coordinate with the California Environmental Protection Agency Air Resources Board.</p> <p>Objective: Manage the ACEC with the standards for CO, H<sub>2</sub>S, visibility-reducing particles, and attainment for other criteria in accordance with the standards set by the Imperial County Air Pollution Control District.</p> <p>Management Action: Coordinate with the Imperial County Air Pollution Control District.</p> | Soil, water, air                          |
| <p>Objective: Identify Special Status plant species within ACEC.</p> <p>Management Action: Conduct Special Status plant inventories.</p> <p>Objective: Maintain habitat that potentially supports the presence of Special Status plant species.</p> <p>Management Action: Control the introduction of invasive plant species.</p> <p>Objective: Determine the effects of pesticide spraying on the Special Status plant species.</p> <p>Management Action: Conduct study to assess effects of pesticides on the Special Status plant species.</p>                                                                                                                        | Vegetation (incl. special status species) |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Objective: Avoid significant adverse impacts on wetland and riparian areas.<br>Management Action: Initiate programs to rehabilitate those areas in a deteriorated condition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |
| Objective: Control noxious or poisonous plants, improve habitat, and eliminate introduced plant species, such as tamarisk, from riparian areas.<br>Management Action: Develop strategies, such as vegetation manipulation.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |
| Objective: Determine the composition of wildlife species resident in the ACEC.<br>Management Action: Conduct wildlife inventories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fish and Wildlife (incl. special status species) |
| Objective: Determine the composition of Special Status Species occupying the ACEC.<br>Management Action: Conduct inventories to identify Special Status Species.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |
| Objective: Conserve habitat that potentially supports the presence of Special Status Species: Colorado Valley Woodrat ( <i>Neotoma albigula venusta</i> ), Flat-tailed horned lizard ( <i>Phrynosoma mcallii</i> ), Crissal Thrasher ( <i>Toxostoma crissale</i> ), Le Conte's Thrasher ( <i>Toxostoma lecontei</i> ), Loggerhead Shrike ( <i>Lanius ludovicianus</i> ), and Southern Leopard Frog ( <i>Rana yavapaiensis</i> ) – extirpated.<br>Management Action: Manage landscape to ensure continued passage and connectivity for wildlife.                                                                                                                                     |                                                  |
| Objective: Protect and monitor habitat that supports the Flat-tailed horned lizard, which may be present.<br>Management Action: Continue to participate actively in the Interagency Coordinating Committee to coordinate the management of the Flat-tailed horned lizard and its habitat.                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |
| Objective: Determine the effects of pesticide spraying on the Flat-tailed horned lizard.<br>Management Action: Conduct study to assess effects of pesticides on the Flat-tailed horned lizard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
| Objective: Protect and monitor cultural resources listed in, or eligible for listing in, the National Register of Historic Places, including the Southwest Lake Cahuilla Recessional Shoreline Archaeological District.<br>Management Action: Conduct cultural resource inventories in advance of any proposed uses which would involve new surface disturbance to ensure the continued integrity of sites listed in, or eligible for listing in, the National Register of Historic Places.<br>Management Action: Coordinate monitoring efforts with the Navy to provide protection for cultural resources within the ACEC.<br>Management Action: Conduct patrols and surveillance. | Cultural Resources                               |
| Objective: Ensure the ACEC is closed to the public.<br>Management Action: Install and maintain signage to inform the public of the closure and regulations.<br>Management Action: Increase compliance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Trails and Travel Management                     |
| Objective: To keep the general recreating public out due to unexploded ordinance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Recreation                                       |

|                                                                                                                                                                                                                                                                                                                                                               |                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <p>Allowable Uses: No allowable uses. This ACEC is closed to the public.</p> <p>Management Action: Increase compliance with protection of resources in the area.</p> <p>Management Action: Install and maintain signage.</p> <p>Objective: Prohibit target shooting.</p> <p>Management Action: patrol, signage, additional access restrictions, as needed</p> |                                                                               |
| <p>Allowable Uses: No allowable uses. This ACEC is closed to the public.</p>                                                                                                                                                                                                                                                                                  | Rights of Way                                                                 |
| <p>Allowable Uses: No allowable uses. This ACEC is closed to the public.</p> <p>Geothermal: ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation.</p>                                                      | Renewable Energy                                                              |
| <p>Objective: Restrict public access. Prevent exploration and development of locatable and saleable minerals.</p> <p>Allowable Uses: No allowable uses. This ACEC is closed to the public.</p> <p>Management Action: Restrict mineral entry by ensuring that no mining claims are filed on public land within the Salton Sea Test Base.</p>                   | <p>Locatable Minerals</p> <p>Mineral Materials</p> <p>Non-Energy Leasable</p> |





Conservation Footprint

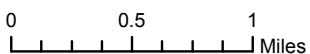
**ACEC Boundaries**



Renewable Footprint



**Land Status**



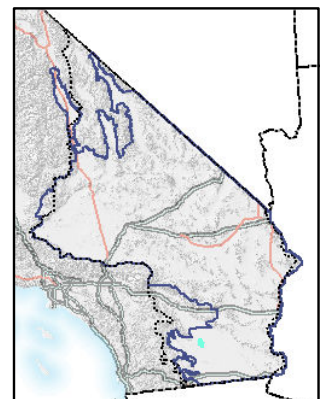
**Salton Sea Hazardous ACEC**

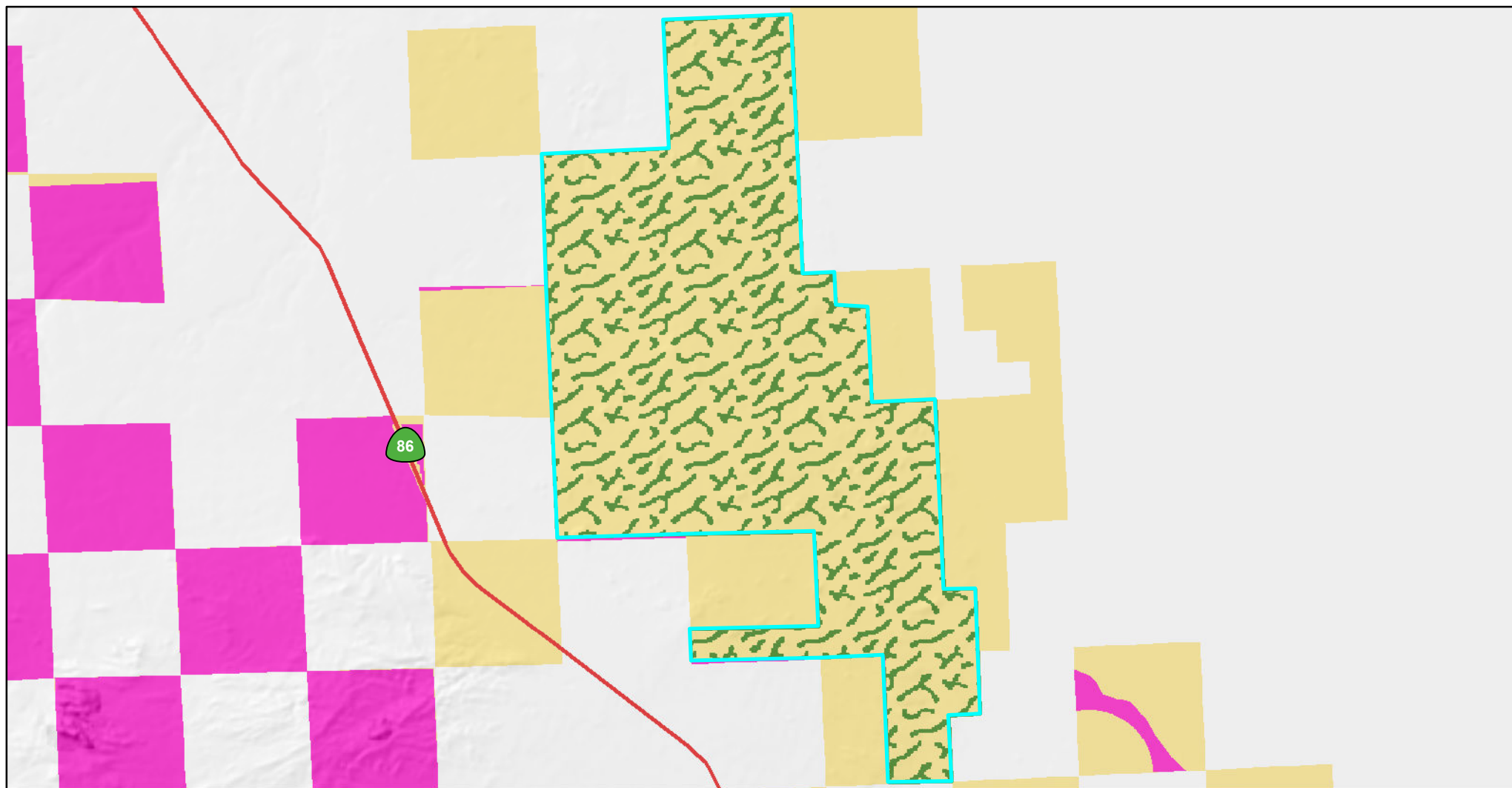


6/25/2015



Draft Map Boundaries Subject to Change





### Conservation Footprint

ACEC Boundaries

0.1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Renewable Footprint

Development Focus Areas

Land Status

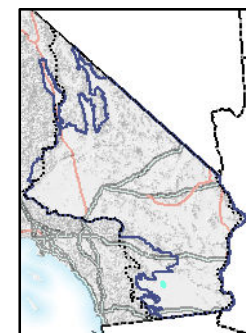
Bureau of Land Management

0 0.5 1  
Miles

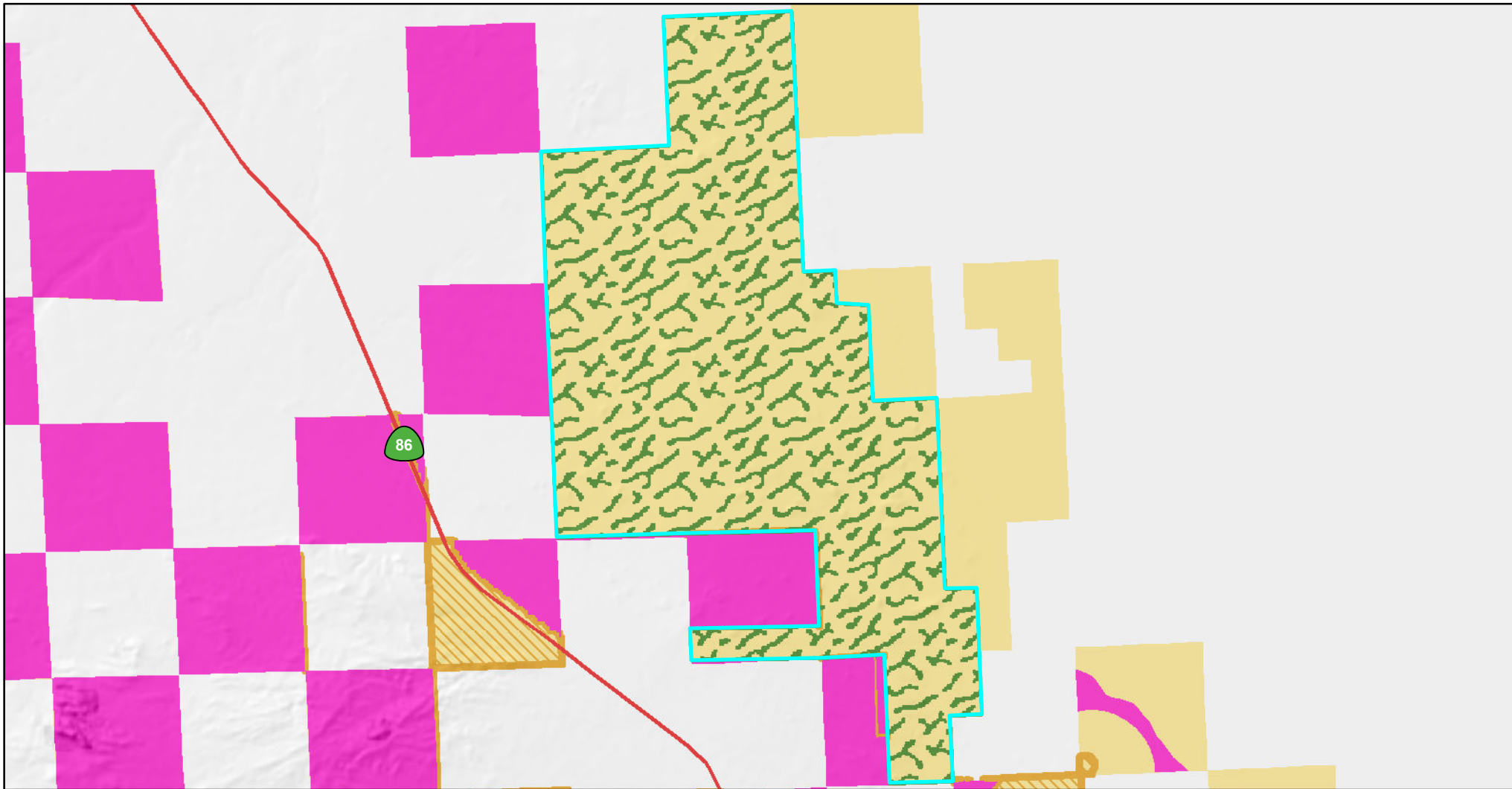
## Salton Sea Hazardous ACEC Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

 National Conservation Lands

 DRECP Boundary

ACEC Boundaries

 CDCA Boundary

 0.1% Disturbance Cap

Renewable Footprint

 Development Focus Areas

### Land Status

 Bureau of Land Management

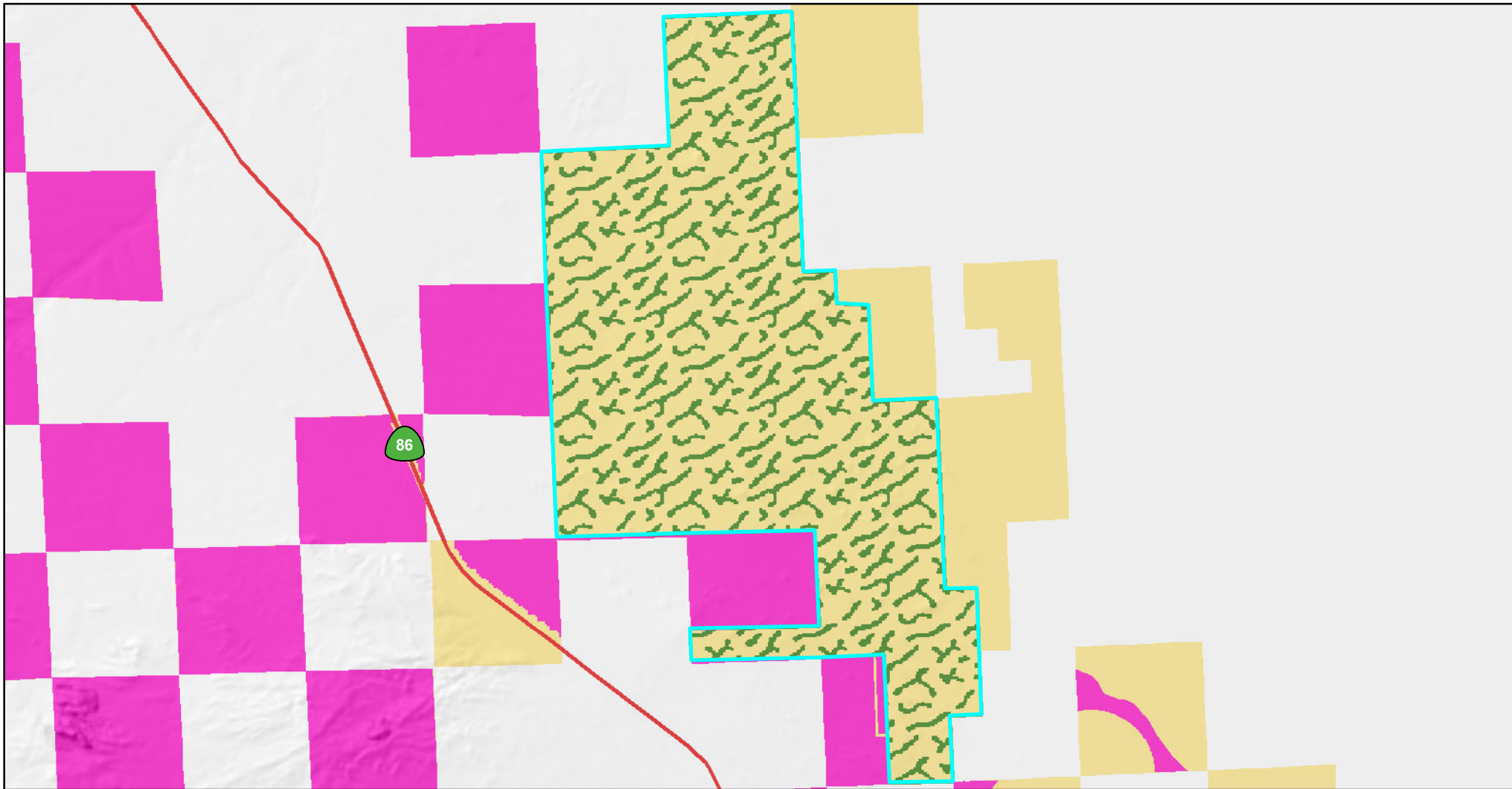
## Salton Sea Hazardous ACEC Alternative 2

8/26/2015

Draft Map Boundaries Subject to Change

0 1 2  
Miles





### Conservation Footprint

ACEC Boundaries  
 0.1% Disturbance Cap

DRECP Boundary  
 CDCA Boundary

Renewable Footprint  
 Development Focus Areas

Land Status  
 Bureau of Land Management

0 0.5 1  
 Miles

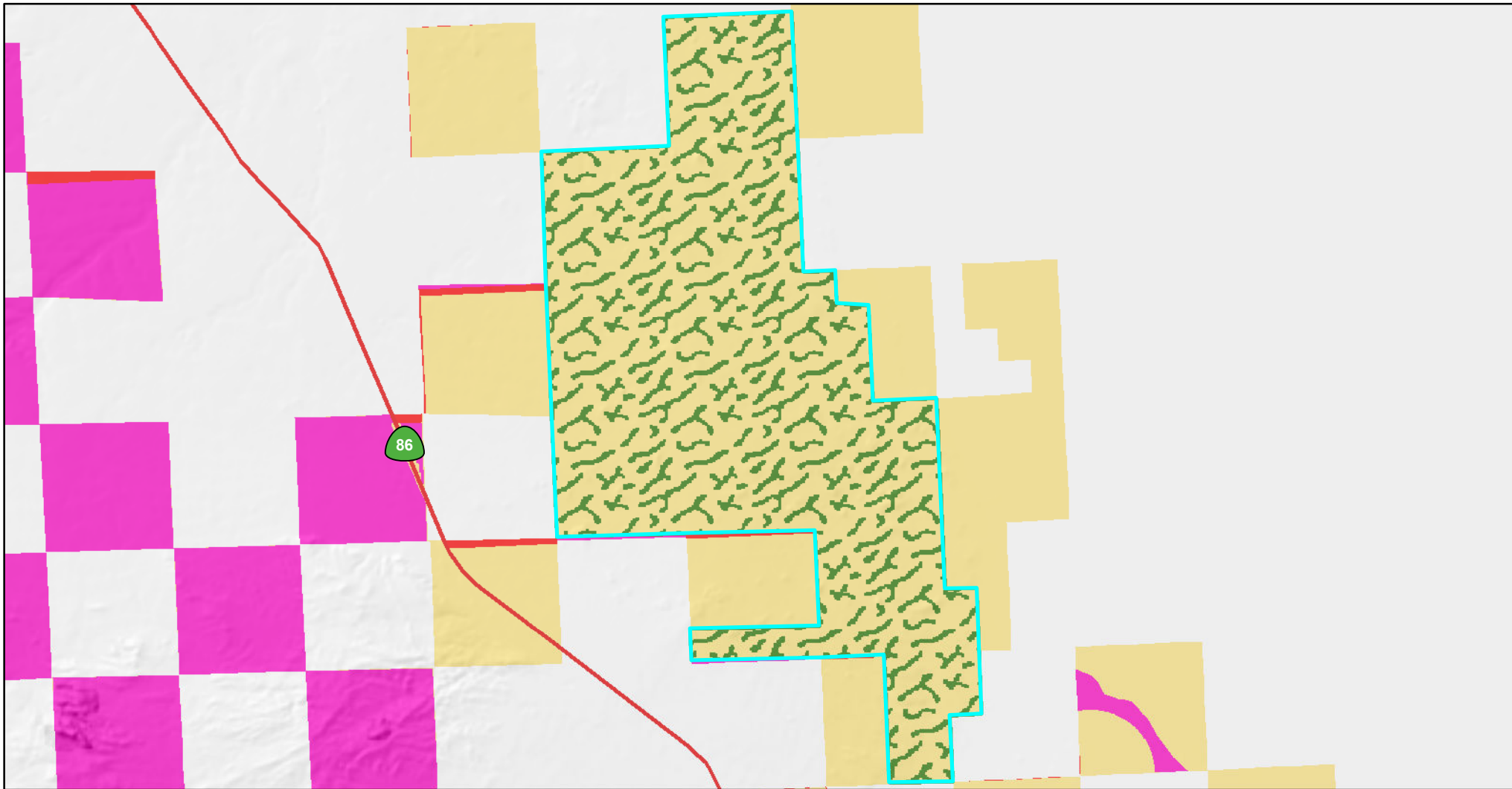
## Salton Sea Hazardous ACEC Alternative 3

8/27/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

ACEC Boundaries  
 0.1% Disturbance Cap

DRECP Boundary  
 CDCA Boundary

### Renewable Footprint

Development Focus Areas  
 Variance Lands

### Land Status

Bureau of Land Management

0 0.5 1  
 Miles

## Salton Sea Hazardous ACEC Alternative 4

8/27/2015

Draft Map Boundaries Subject to Change



### San Sebastian Marsh-San Felipe Creek

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location:** The San Sebastian Marsh-San Felipe Creek ACEC and proposed conservation lands are located in western Imperial County, bounded on the north by Highway 78, on the east by State Highway 86, on the southeast by the Superstition Hills and on the south and west by Lower Borrego Valley.

**Nationally Significant Values:**

**Cultural:** The proposed conservation lands and ACEC hold a rich history of human occupation. Prehistoric and historic use centered on the marsh environment which represented a stable water source in a desert environment. Prehistoric archaeological sites eligible for listing in the National Register of Historic Places (NRHP) including villages, temporary campsites and trails are located within this ACEC. The Juan Bautista de Anza National Historic Trail also passes through this ACEC and one of the important campsites that Anza used is located here.

**Ecological:** The conservation lands and ACEC are the only designated Critical Habitat for the federally listed endangered desert pupfish and the perennial stream and salt marsh habitat justify it as nationally important. Other special status species can be found at San Sebastian Marsh-San Felipe Creek, including the flat-tailed horned lizard. The conservation lands would provide connectivity with the proposed West Mesa conservation lands to the south.

**Scientific:** Prehistoric and historic archaeological sites with scientific information potential that make them eligible for listing in the NRHP are located within this ACEC.

**Special Designations/Management Plan/Date:** ACEC Plan No. 61, 12/01/1986

**Relevance and Importance Criteria:**

**Biological:** San Felipe Creek/San Sebastian Marsh provides a corridor of unique and highly valuable habitat. The portion of the stream between Tarantula Wash and Harper's Well Wash is spring fed and perennial. Even in the driest years, a series of interrupted pools persists. Six primary habitat types occur within the ACEC. These include marsh, creosote bush scrub, mesquite woodland, mesquite dune, alkali sink scrub, and wash community.

**National Historic and Scenic Trails:** This unit overlaps a portion of the Juan Bautista de Anza National Historic Trail.

**Overarching Goals:** Protect the wildlife, habitat and cultural resource values of the San Sebastian March-San Felipe Creek ACEC while providing for compatible public uses. Provide for sustained water flow in the San Felipe watershed.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it



will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

**Designation and Acreage by Alternative:**

| Alternative           | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation | ACEC Disturbance Cap |
|-----------------------|------------------------------------------------------|-----------------------|--------------------------------------|----------------------|
| No Action             | 0                                                    | 6,500                 | 0                                    | NA                   |
| Preferred Alternative | 6,500                                                | 6,500                 | 0                                    | 1%                   |
| 1                     | 6,400                                                | 6,500                 | 0                                    | 1%                   |
| 2                     | 0                                                    | 6,500                 | 0                                    | 1%                   |
| 3                     | 6,500                                                | 6,500                 | 0                                    | 1%                   |
| 4                     | 6,500                                                | 6,500                 | 0                                    | 1%                   |

**\* Acreage values are for BLM managed lands**

| Objectives (desired future condition)/Allowable Uses/Management Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Resource                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <p>Objective: Minimize soil disturbance.</p> <p>Objective: Develop a watershed hydrology model for San Felipe Creek to determine effects of factors such as agriculture, precipitation, plant invasions, flooding and seismicity on marsh habitat and stream flow<br/>Management Action: Gather hydrology data needed to create models</p> <p>Objective: Maintain and enhance native aquatic species and their habitats of special management concern<br/>Management Actions: Enhance aquatic habitats. Install and maintain wildlife guzzler.</p> <p>Objective: Manage the ACEC with the standards for CO, H2S, visibility-reducing particles, and attainment for other criteria in accordance with the standards set by the Imperial County Air Pollution Control District.</p> <p>Management Actions: Coordinate with the Imperial County Air Pollution Control District.</p> | Soil, water, air                          |
| <p>Six primary habitat types occur within the ACEC. These include marsh, creosote bush scrub, mesquite woodland, mesquite dune, alkali sink scrub, and wash community.</p> <p>Objective: Protect the following sensitive plant species from unnatural ground disturbance:<br/>Salton Milk-Vetch (<i>Astragalus crotalariae</i>) (CNPS 4.3)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vegetation (incl. special status species) |

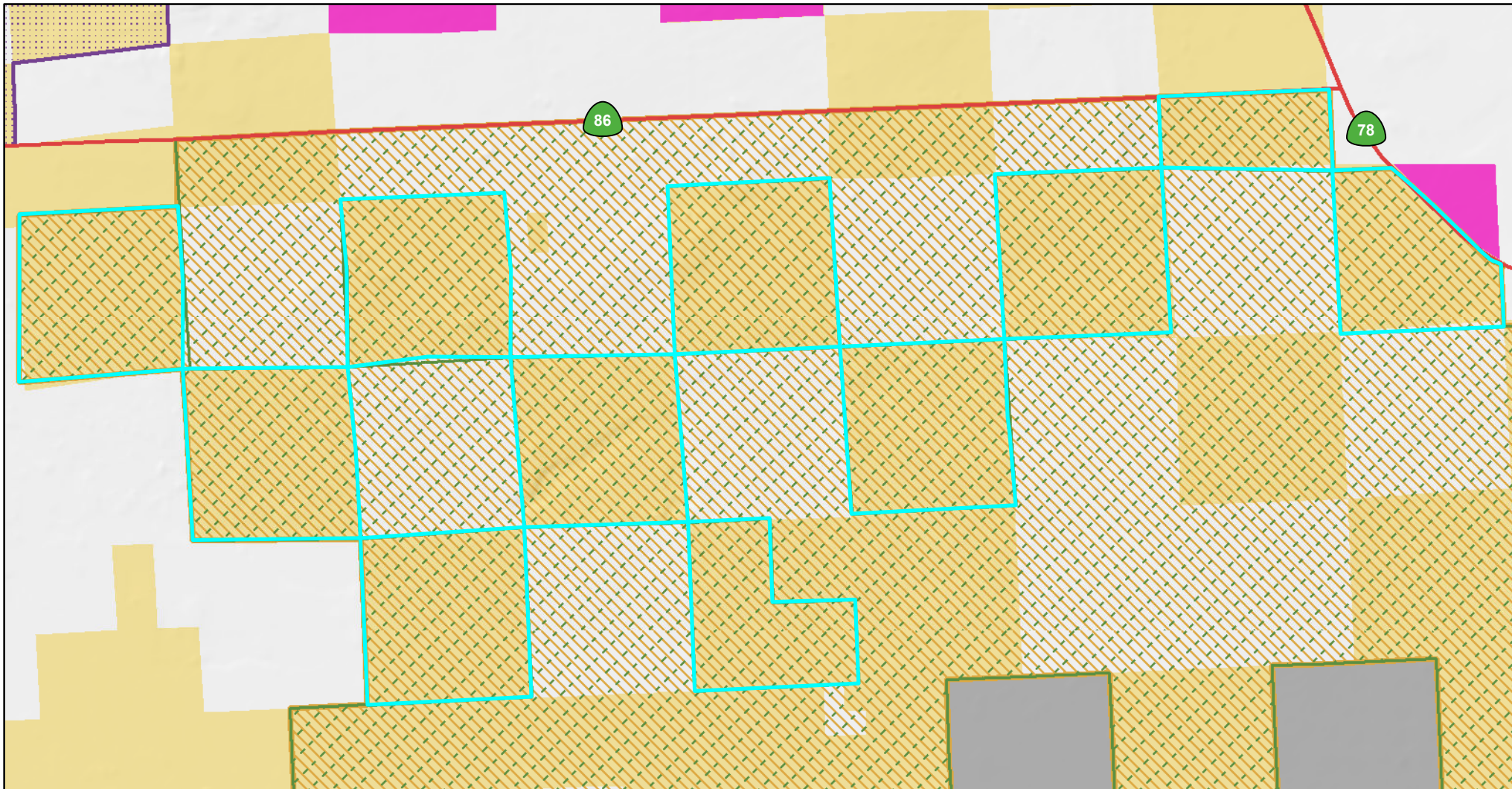
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <p>Gravel Milk-Vetch (<i>Astragalus sabulorum</i>) (CNPS 2.2)<br/> Parish's Club-Cholla (<i>Grusonia parishii</i>) (CNPS 2.2)<br/> Wiggins' Cholla (<i>Opuntia wigginsii</i>) (CNPS 2.2)<br/> Thurber's Pilostyles (<i>Pilostyles thurberi</i>) (CNPS 4.3)<br/> Pholisma sonorae ?</p> <p>Objective: Control exotic vegetation and promote native vegetation<br/> Management Action: Develop a restoration plan with the California Department of Fish and Game for the San Felipe watershed that includes removing of salt cedar (no burning), replacing the tamarisk-occupied area with native riparian shrubs and trees (mesquite especially), and envisions landscape connectivity between the ACEC the BLM lands in the headwaters of the watershed;<br/> Management Action: Initiate a program of land acquisition of tamarisk-infested lands upstream of the ACEC to remove tamarisk, revegetate with native species, and halt downstream spread of tamarisk into the current ACEC;<br/> Management Action: Work with the other public lands managers in the San Felipe Creek watershed on landscape-level planning to improve the ecological function of the watershed and to enhance the native vegetation.</p> |                                                  |
| <p>Special Status Species:<br/> Desert Pupfish (<i>Cyprinodon macularius</i>)<br/> Colorado Valley Woodrat (<i>Neotoma albigula venusta</i>)<br/> Flat-tailed horned lizard<br/> Crissal Thrasher<br/> Le Conte's Thrasher<br/> Loggerhead Shrike (<i>Lanius ludovicianus</i>)<br/> Southern Leopard Frog (<i>Rana yavapaiensis</i>) - extirpated</p> <p>Objective: Determine the composition of wildlife and plant species resident within the ACEC.<br/> Management Action: Perform wildlife inventories for comparison with the UC-Santa Cruz 1982 inventory.</p> <p>Objective: Control exotic aquatic wildlife species where they are detrimental to native species, especially <i>Gambusia affinis</i>.<br/> Management Action: Install a fish barrier east of Highway 86</p> <p>Objective: Improve native wildlife habitat<br/> Management Action: Install a freshwater pond for the southern leopard frog and desert pupfish and reintroduce a population of the frog into enhanced habitat<br/> Management Action: Install wildlife guzzlers outside the riparian zone of the creek and marsh.</p>                                                                                                               | Fish and Wildlife (incl. special status species) |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Provide for the protection of highly sensitive cultural resources.<br/> Management Action: Perform route restoration to erase illegal routes.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cultural Resources                               |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p> <p>Management Action: Increase compliance with protection of resources in the area.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV Routes.</p> <p>Management Action: Nominate the significant sites or potential district to the NRHP.</p> <p>Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the cultural resource values present within the ACEC.</p> <p>Objective: Increase public awareness of the cultural resources values within the ACEC.</p> <p>Management Action: Install informative signage and kiosks at various appropriate locations within the ACEC.</p> <p>Objective: Monitor the known significant archaeological sites and record new sites that may exist within the ACEC.</p> <p>Management Action: Work with local and national archaeological and historical organizations and institutions to develop partnerships to enable proactive survey and recordation.</p> <p>Management Action: Apply for grant or other funding to pay for the studies.</p> <p>Objective: Evaluate the need for stabilization projects to retard erosional processes within the ACEC that may be negatively affecting the prehistoric village sites.</p> |                              |
| <p>Objective: Promote cultural history of the ACEC.</p> <p>Management Action: Coordinate with NPS on the management of the Juan Bautista de Anza NHT</p> <p>Management Action: Implement the Juan Bautista de Anza NHT Management Plan.</p> <p>Management Action: Comply with the NHT CMAs.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | National Trails              |
| <p>Objective: Protect characteristic landscape of the marsh, and particularly the historic landscape surrounding the Anza NHT and related historic sites.</p> <p>Management Actions: Mitigate impacts to visual resources by applying appropriate techniques and prescriptions of appropriate VRM class.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Visual Resources             |
| <p>Objective: Manage the route of travel network to fulfill requirements of the original CDCA Plan and the WECO Plan Amendment.</p> <p>Management Action: Provide signage and maps to the public to inform them of route locations and regulations.</p> <p>Management Action: Increase compliance with route of travel network.</p> <p>Management Action: Create barriers as necessary and monitor the creation of illegal routes. Perform route restoration as needed.</p> <p>Management Action: Coordinate with Border Patrol as to the sensitivity of the area. Educate agents about the fragile resources and the damage they can do by driving off route unnecessarily.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trails and Travel Management |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <p>Objective: Promote public understanding of ACEC values and encourage compliance.<br/> Management Action: Increase compliance visits to the area.<br/> Management Action: Install signage and update kiosk. Provide maps to the public to inform them of route locations and regulations.</p> <p>Objective: Promote dispersed recreational activities in this area which would include sight-seeing, hiking, and bird watching.<br/> Management Action: Create a watchable wildlife site.</p> | Recreation                                                      |
| <p>Objective: Protect resource values of the ACEC<br/> Management Action: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.</p> <p>Existing ROWs: CalTrans material site ROW</p> <p>All but 640 acres leased for oil and gas. When the leases expire, the BLM will not renew them.</p>                                                                      | Rights of Way                                                   |
| <p>Objective 1: Manage ACEC collaboratively with the California Department of Fish and Wildlife.<br/> Objective 2: Consolidate through tenure adjustment.<br/> Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.</p>                                                                                                                                                                                                                                | Land Tenure                                                     |
| Available for geothermal leasing, no surface occupancy                                                                                                                                                                                                                                                                                                                                                                                                                                          | Renewable Energy                                                |
| <p>Objective: Permit mineral development in the ACEC with stipulations to minimize impact on resources.<br/> Allowable Uses: Geothermal Leasing. Mineral leasing with stipulations.<br/> Management Actions: Close coordination to ensure mineral and energy development has minimal impact on wildlife, habitat and cultural resources.<br/> Allow geothermal leasing with no surface occupancy.</p>                                                                                           | Locatable Minerals<br>Mineral Materials<br>Non-Energy Leasables |





### Conservation Footprint

 National Conservation Lands

ACEC Boundaries

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 OHV Boundary

### Renewable Footprint

 Development Focus Areas

### Land Status

 Bureau of Land Management

 Department of Defense

## San Sebastian Marsh/San Felipe Creek

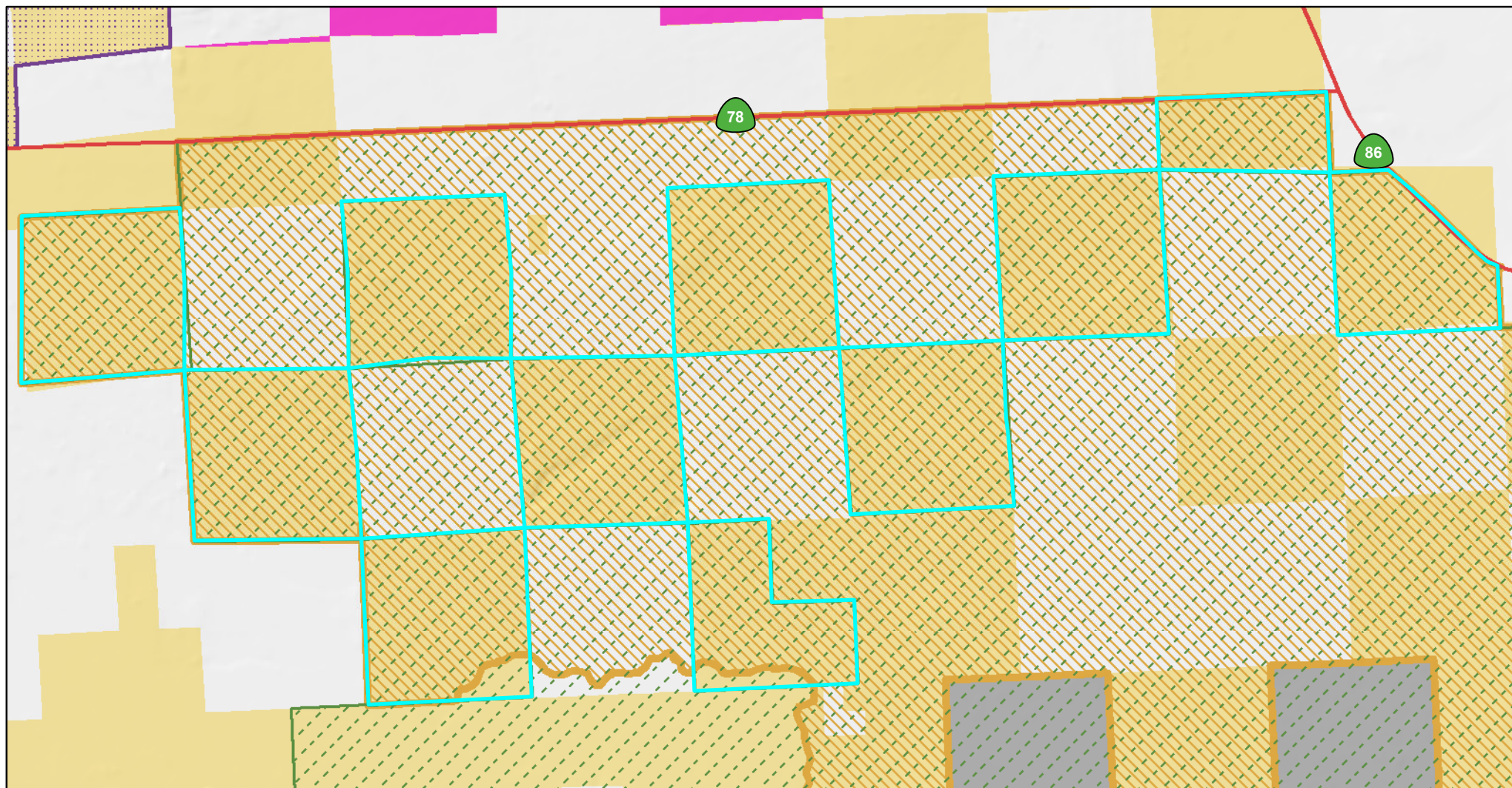
6/24/2015

Draft Map Boundaries Subject to Change

0 0.5 1  
Miles







### Conservation Footprint

 National Conservation Lands

 ACEC Boundaries

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 OHV Boundary

### Renewable Footprint

 Development Focus Areas

### Land Status

 Bureau of Land Management

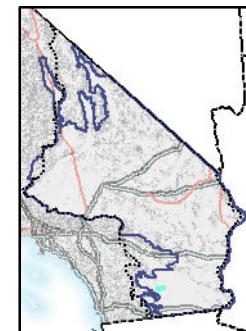
 Department of Defense

## San Sebastian Marsh/San Felipe Creek Alternative 1

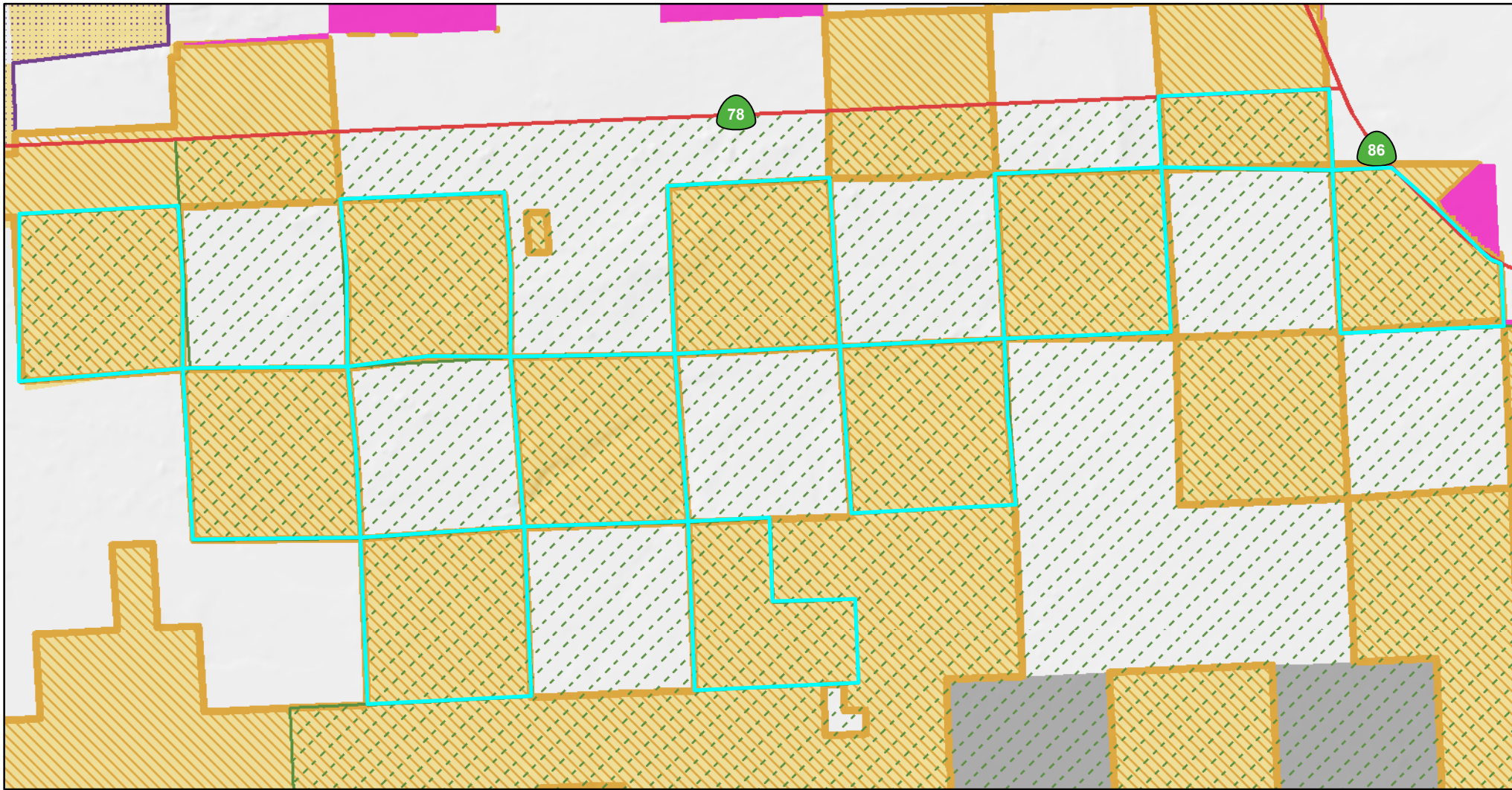
8/25/2015

Draft Map Boundaries Subject to Change

0 0.5 1  
Miles







### Conservation Footprint

National Conservation Lands

ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

Bureau of Land Management

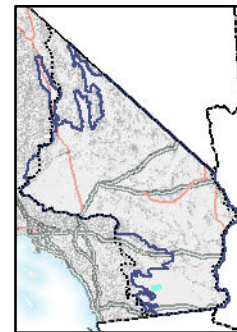
Department of Defense

0 0.5 1  
Miles

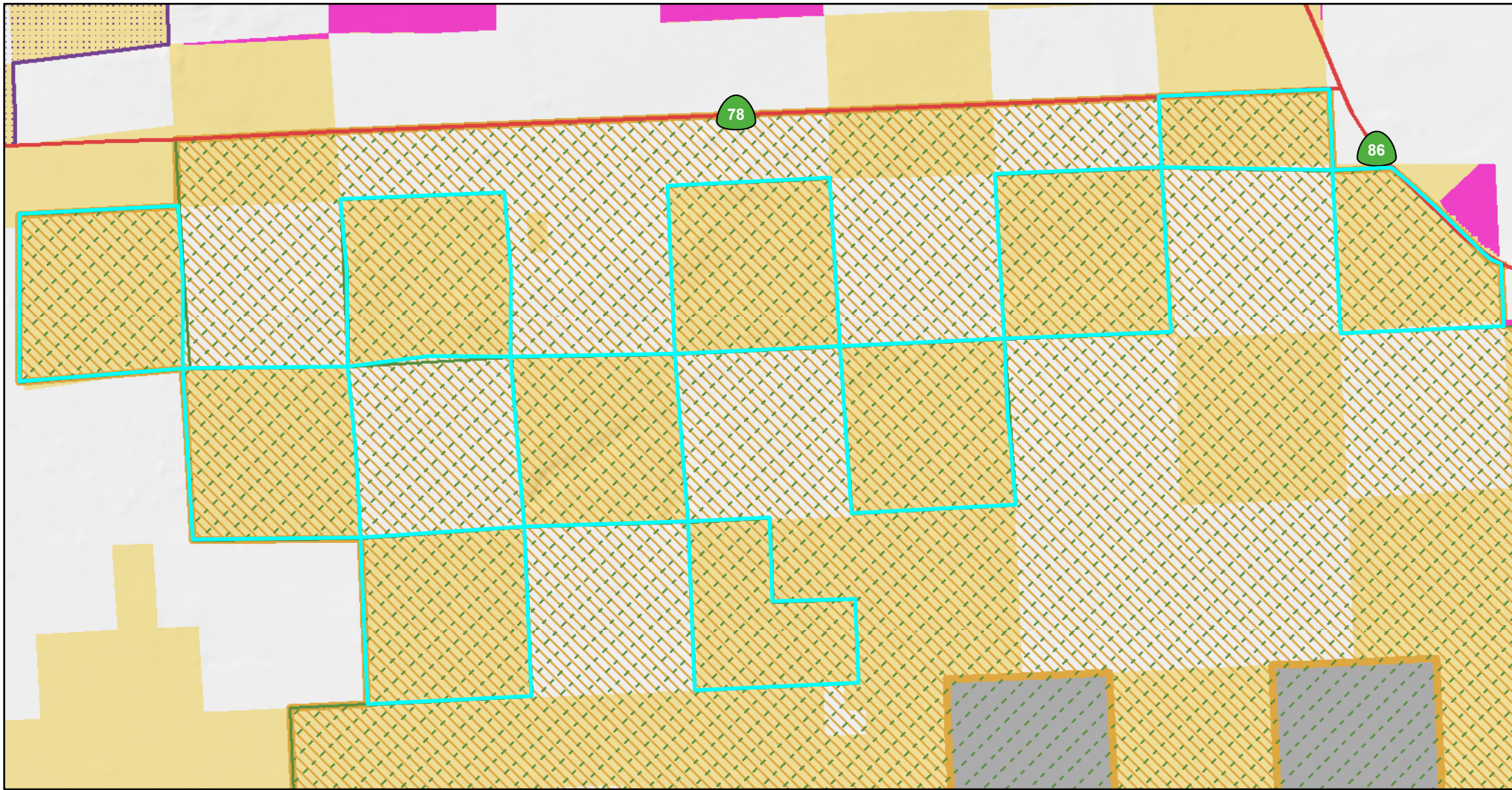
## San Sebastian Marsh/San Felipe Creek Alternative 2

8/26/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

National Conservation Lands

ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

Renewable Footprint

Development Focus Areas

### Land Status

Bureau of Land Management

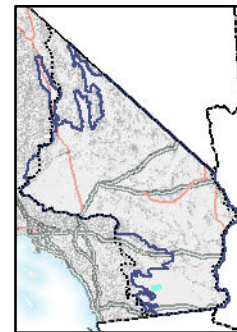
Department of Defense

## San Sebastian Marsh/San Felipe Creek Alternative 3

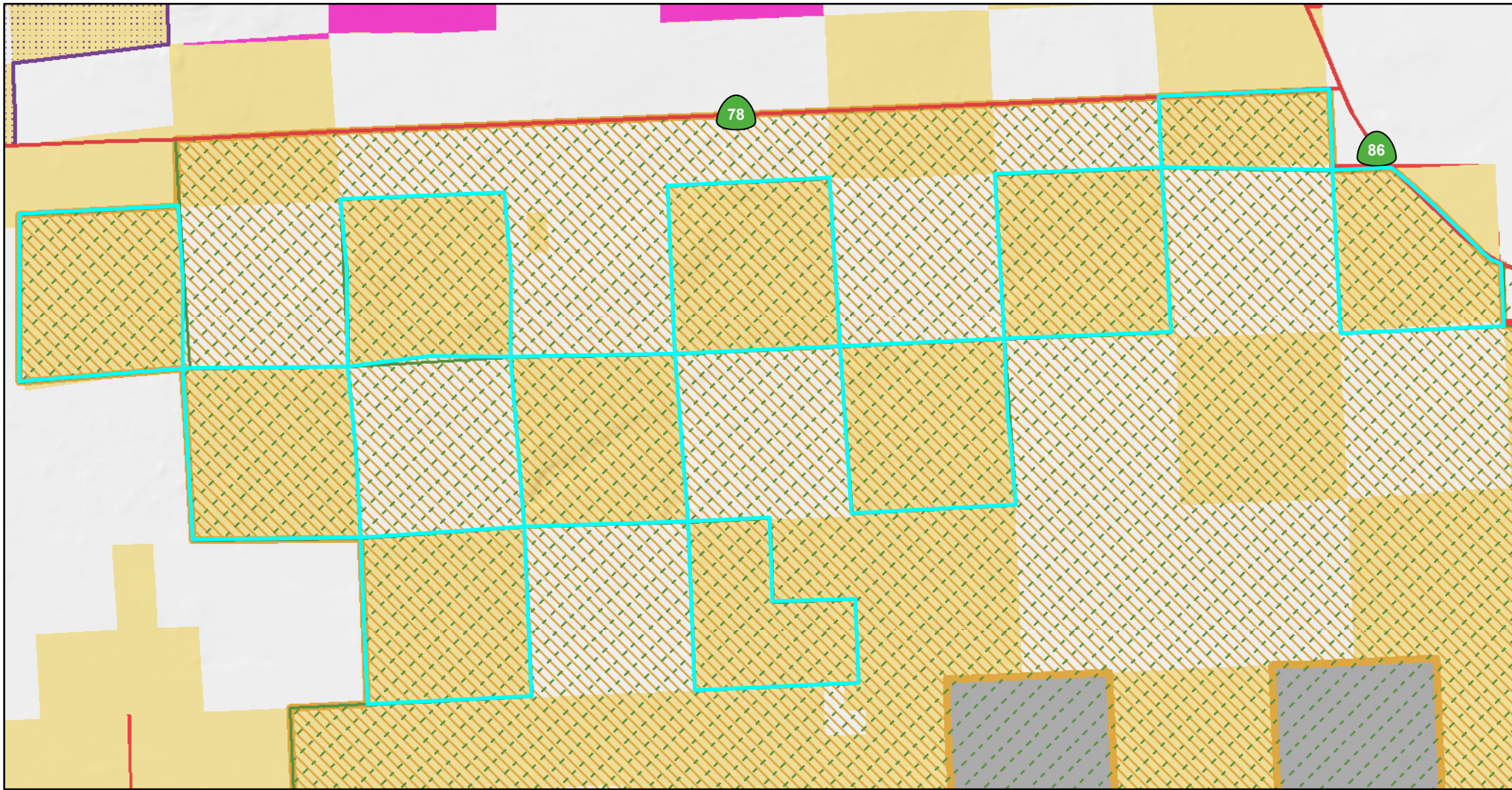
8/27/2015

Draft Map Boundaries Subject to Change

0 0.5 1  
Miles







### Conservation Footprint

 National Conservation Lands

ACEC Boundaries

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 OHV Boundary

### Renewable Footprint

 Development Focus Areas

 Variance Lands

### Land Status

 Bureau of Land Management

 Department of Defense

## San Sebastian Marsh/San Felipe Creek Alternative 4

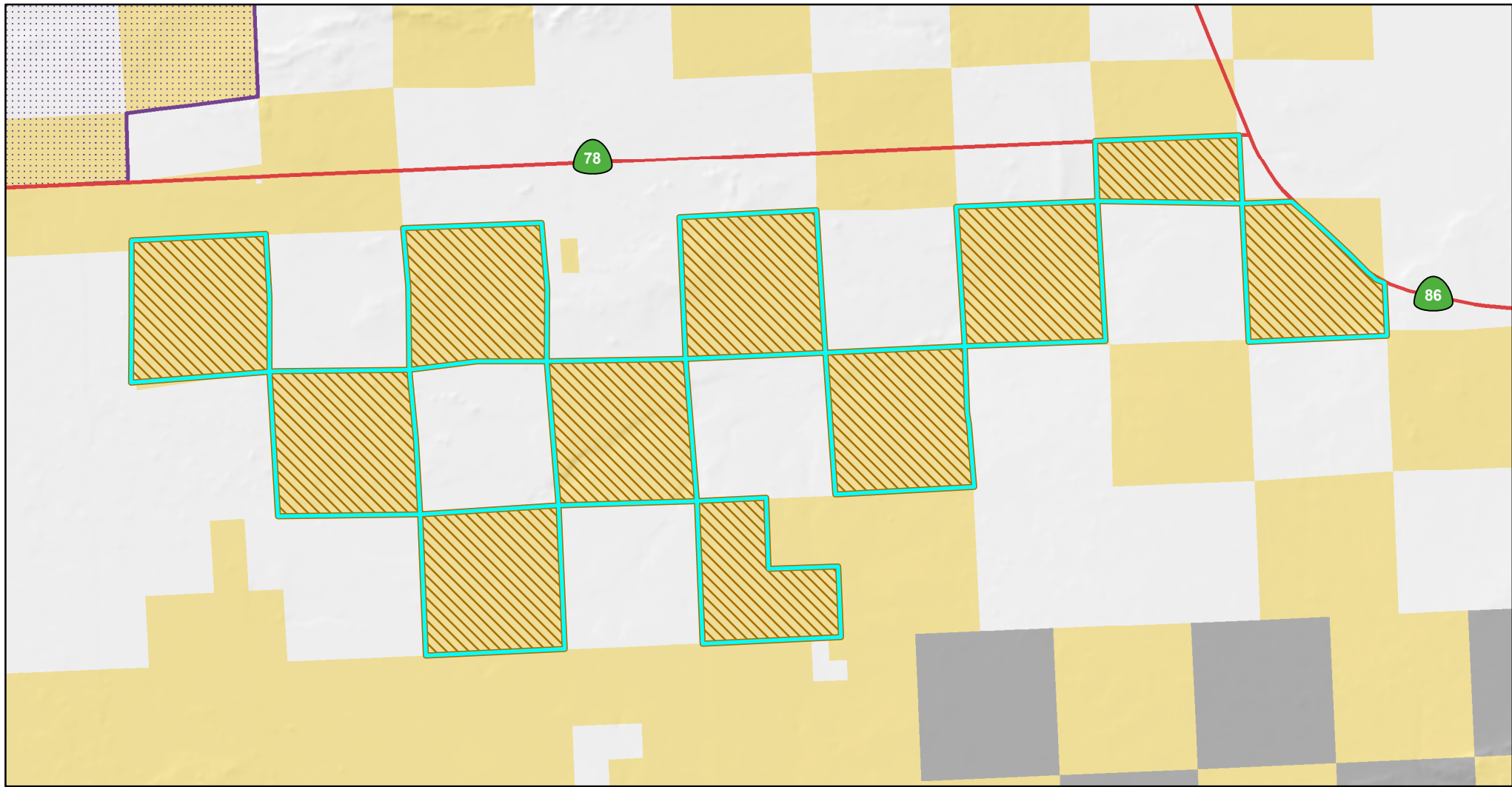
8/27/2015

Draft Map Boundaries Subject to Change



0 0.5 1 Miles





### Conservation Footprint

- |                                                                                                  |                                                                                                               |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  Existing ACEC  | <b>Land Status</b>                                                                                            |
|  CDCA Boundary  |  Bureau of Land Management |
|  DRECP Boundary |  Department of Defense     |
|  OHV Boundary   |                                                                                                               |

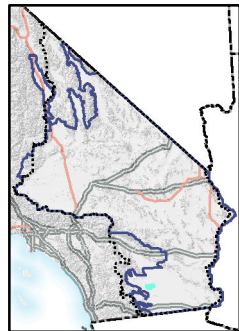
## San Sebastian Marsh/San Felipe Creek

**No Action**

9/15/2015

Draft Map Boundaries Subject to Change

0 1 2 Miles



## Shoreline

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location:** This proposed new conservation land and discontinuous ACEC has portions located both east and west of El Centro, California. One segment is located north of the Fish Creek Wilderness area, and two segments are located to the east of farmlands north of Highway 78.

### **Nationally Significant Values:**

**Cultural:** Rare and unique archaeological values exist within the proposed conservation lands and the ACEC. These lands include several large archaeological sites that contain dense accumulations of ceramics, hearths, stone tools, and features that are associated with the shoreline of ancient Lake Cahuilla which has repeatedly in-filled over the last thousand years. These sites contain evidence of habitation, food preparation, early trade, lake-shore adaption and socio-religious practices, giving us insight into prehistoric human behavior. Areas and landmarks of traditional religious and spiritual concern to Native Americans are located in and visible from the ACEC. Prehistoric archaeological sites listed in and eligible for listing in the NRHP are located within this ACEC.

**Scientific:** Prehistoric archaeological sites with scientific information potential that make them eligible for listing in the NRHP are located within this ACEC. This ACEC also contains significant paleontological resources, including the Palm Springs Formation.

**Special Designations/Management Plan/Date:** No previous special designation.

### **Relevance and Importance Criteria:**

**Cultural:** The Shoreline ACEC contains cultural resources which require special management attention. Sensitive archaeological sites are potentially endangered from uncontrolled sand and gravel removal, off-road vehicle use, and other forms of activity.

Archaeological values within each ACEC are rare and unique in character. The ecological environment of Lake Cahuilla was not duplicated elsewhere in the California Desert. In fact, the circumstances which led to repeated fillings of Lake Cahuilla may not exist elsewhere in the world. Consequently, Lake Cahuilla archaeology provides us with a rare glimpse into prehistoric human behavior which can contribute to our knowledge of our varied cultural heritage.

**Overarching Goals:** Protect and enhance cultural and paleontological values while complying with existing legislation and BLM policies. Provide for compatible uses.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

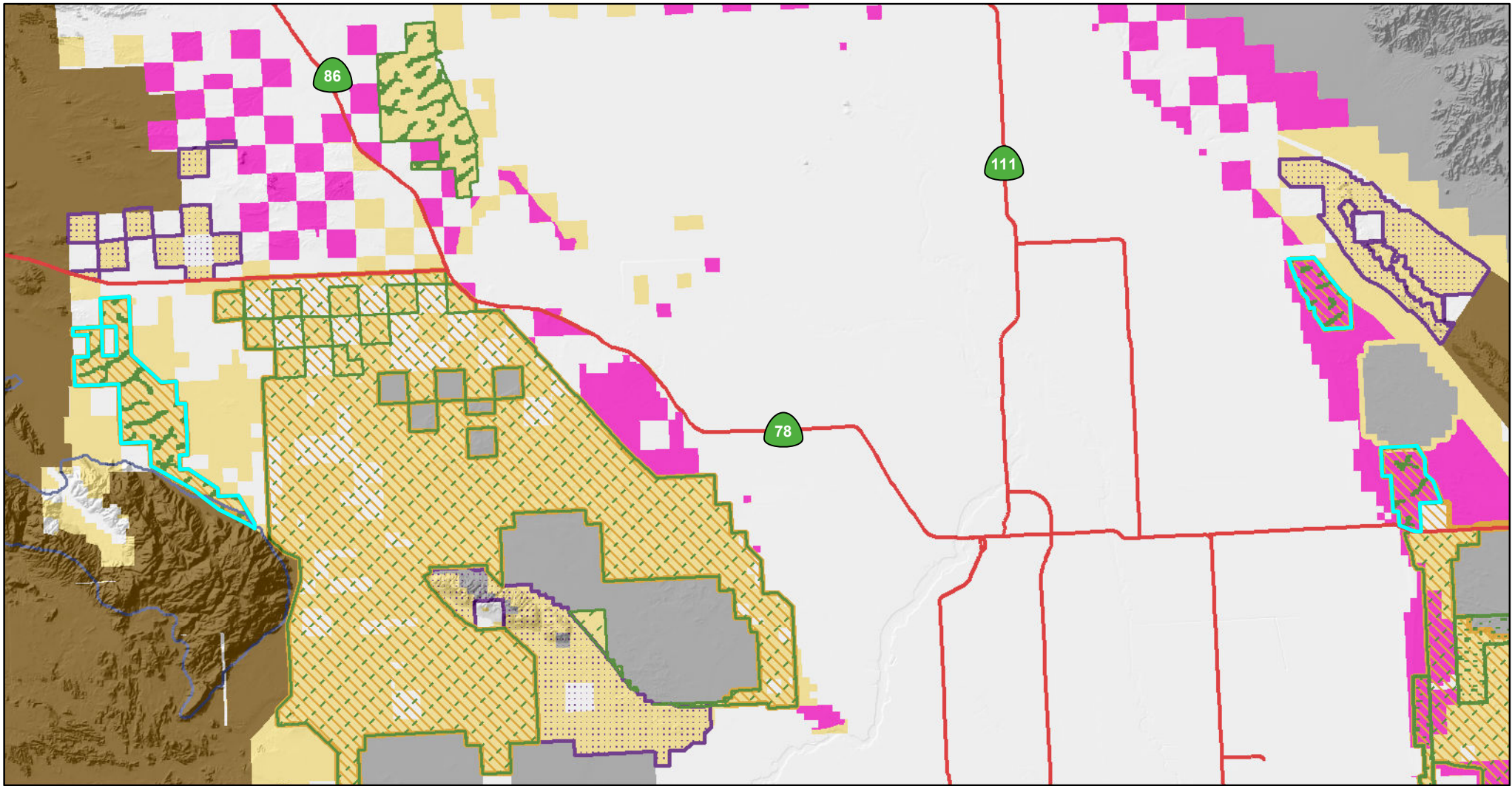


| <b>Designation and Acreage by Alternative:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |                       |                                                  |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|--------------------------------------------------|----------------------|
| Alternative**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation             | ACEC Disturbance Cap |
| Preferred Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11,620                                               | 11,620                | 0                                                | 0.10%                |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                                                    | 35,800                | 0                                                | 0.10%                |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 33,800                                               | 33,800                | 0                                                | 0.10%                |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16,700                                               | 35,600                | 0                                                | 0.10%                |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12,400                                               | 29,200                | 0                                                | 0.10%                |
| <p><b>* Acreage values are for BLM managed lands</b></p> <p><b>** Acreage in Alternatives 1, 2, 3, 4 reflect this proposed ACEC being an expansion and part of the Lake Cahuilla ACEC in the Draft EIS. The proposed Shoreline ACEC has been separated from the existing Lake Cahuilla ACEC for the Final Preferred Alternative.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      |                       |                                                  |                      |
| <b>Objectives (desired future condition)/Allowable Uses/Management Actions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |                       | <b>Resource</b>                                  |                      |
| <p>The Shoreline ACEC lies largely within a Creosote bush scrub plant community. Major plant species in the area include creosote (<i>Larrea tridentata</i>), Mormon tea (<i>Ephedra trifurca</i>), and saltbush (<i>Atriplex canescens</i>). The area is also dotted with small numbers of honey mesquite dunes (<i>Prosopis gland ulosa</i>). BLM Special Status Plants include Sand food and the Algodones Dunes sunflower.</p> <p>Objective: Protect and enhance robust populations of both rare and common native plants.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV routes.</p> <p>Management Action: Place signs, kiosks and interpretive information at key recreational sites to better inform the public about the important plant resources.</p> <p>Management Action: Eradicate and control the spread of invasive and noxious weeds.</p> <p>Objective: Update a baseline of plant species to track environmental changes.</p> <p>Management Action: Inventory vascular and non-vascular plants, include soil crust species, in the ACEC.</p> |                                                      |                       | Vegetation (incl. special status species)        |                      |
| <p>The Shoreline ACEC contains three primary habitat types: creosote bush scrub, mesquite dunes, and canal-created riparian zones. Wildlife diversity is greatest in the artificial riparian areas. The primary species of special management concern</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                       | Fish and Wildlife (incl. special status species) |                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <p>are the state and Federally listed endangered Yuma clapper rail and the California black rail. The latter species is State listed and a candidate for Federal listing. The flat-tailed horned lizard, a candidate for Federal listing, likely occurs in the ACEC. Additionally, seven bird species included on the 1982 Audubon Society Blue List of diminishing species occur or potentially occur within the Shoreline ACEC. These include the sharp-shinned hawk, marsh hawk, Swainson's hawk, long-billed curlew, Bewick's wren, loggerhead shrike, and yellow warbler.</p> <p>Objective: Maintain wildlife habitat that supports native species including that of special status species.</p> <p>Management Action: Monitor wildlife for habitat and population change. Within the flat-tailed horned lizard Management Area, follow the Range-wide Management Strategy.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Protect and preserve cultural resources within and visible from the ACEC.</p> <p>Management Action: Develop interpretive programs and brochures that explain cultural resources.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV Routes.</p> <p>Management Action: Perform route restoration to erase illegal routes.</p> <p>Management Action: Increase compliance with cultural resource protection</p> <p>Management Action: Nominate the district for listing in the NRHP.</p> <p>Management Action: Install informative signage and kiosks to ensure the public is aware of restrictions as well as provide interpretation about ancient Lake Cahuilla.</p> <p>Objective: Expand our understanding of the nature, variety, and complexity of cultural resources within the Shoreline ACEC.</p> <p>Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the cultural resource values present within the ACEC.</p> <p>Management Action: Work with local archaeological organizations and institutions to develop partnerships to enable proactive survey and recordation.</p> <p>Management Action: Apply for grant or other funding to pay for contracting.</p> | Cultural Resources |
| <p>Objective: Ensure the general management and protection of paleontological resources within the ACEC.</p> <p>Management Action: Manage and protect fossil resources consistent with the Paleontological Resources Preservation Act and the Omnibus Act.</p> <p>Management Action: Develop plans and cooperative agreements to increase the inventory and scientific and educational use of paleontological resources.</p> <p>Management Action: Prohibit casual collection of vertebrate fossils without a permit.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Paleontology       |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <p>Management Action: Install informative signage and kiosks to ensure the public is aware of restrictions as well as provide general education about the unique and important resources.</p> <p>Management Action: Develop interpretive programs and brochures that explain Lake Cahuilla paleontology.</p>                                                                                                                                                                                                                                    |                                                                 |
| <p>Objective: Manage the route of travel network to fulfill requirements of the original CDCA Plan and the WECO Plan Amendment.</p> <p>Management Action: Provide signage and maps to the public to inform them of route locations and regulations.</p> <p>Management Action: Increase BLM personnel visits to the area.</p> <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p>                                                                                                          | Trails and Travel Management                                    |
| <p>Objective: Protect archaeological sites from physical degradation.</p> <p>Management Action: Prohibit camping except in sand and gravel pits and within 300' of center line feet of approved routes of travel, as per the WECO plan. Continue to monitor existing recreational opportunities (hunting, target shooting etc.).</p> <p>Management Action: Increase patrols and other BLM personnel visits to the area.</p> <p>Management Action: Provide signage and maps to the public to inform them of route locations and regulations.</p> | Recreation                                                      |
| <p>Avoid impacts to resource values.</p> <p>Limit linear ROWs to designated transmission corridors.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rights of Way                                                   |
| <p>No development</p> <p>Objective: Maintain integrity of large blocks of habitat</p> <p>Allowable Uses: Not an allowable use. Renewable energy development is not compatible with NLCS and ACEC unit values and criteria, except as identified below</p> <p>Geothermal: ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation with the exception of existing and approved leases.</p>        | Renewable Energy                                                |
| <p>Objective: Permit economic resource development in a way to maximize value without jeopardizing cultural resources.</p> <p>Allowable uses: Oil and gas and geothermal exploration with stipulations.</p> <p>Mining activities would be allowed with appropriate analysis and mitigation.</p> <p>Limited material sales</p>                                                                                                                                                                                                                   | Locatable Minerals<br>Mineral Materials<br>Non-Energy Leasables |



## Conservation Footprint

 Legislatively & Legally Protected Areas

 National Conservation Lands

### ACEC Boundaries

 0.1% Disturbance Cap

 1% Disturbance Cap

 ACEC, No DisturbCap

 DRECP Boundary

 CDCA Boundary

 OHV Boundary

### Renewable Footprint

 Development Focus Areas

### Land Status

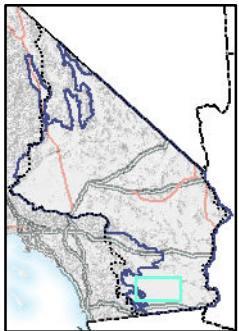
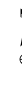
 Bureau of Land Management

 Department of Defense

## Shoreline

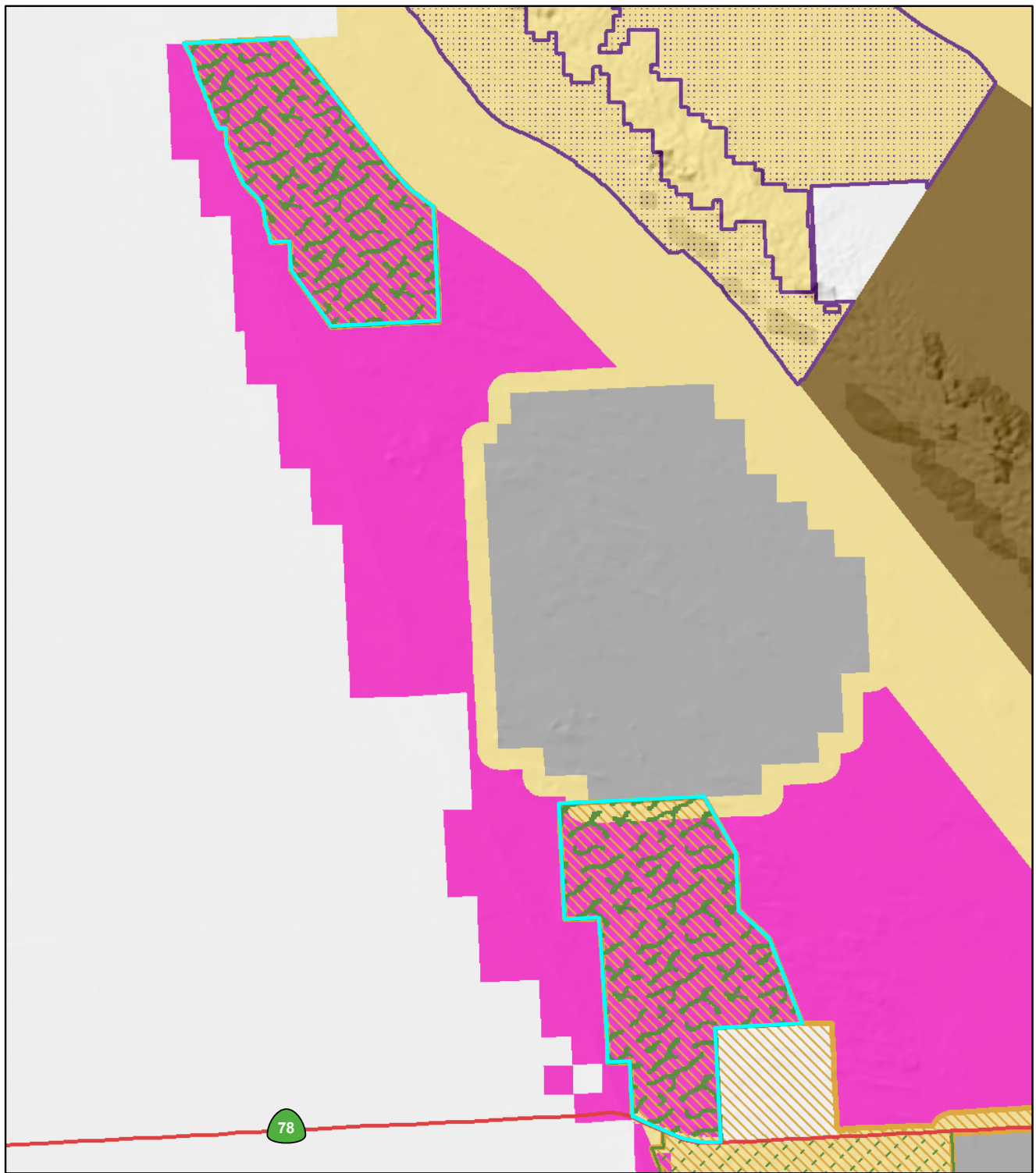
8/13/2015

Draft Map Boundaries Subject to Change



0 4 8 Miles





### Conservation Footprint

-  Legislatively & Legally Protected Areas
-  National Conservation Lands
- ACEC Boundaries**
-  0.1% Disturbance Cap
-  1% Disturbance Cap

-  DRECP Boundary
-  CDCA Boundary
-  OHV Boundary

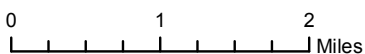
### Renewable Footprint

-  Development Focus Areas

### Land Status

-  Bureau of Land Management
-  Department of Defense

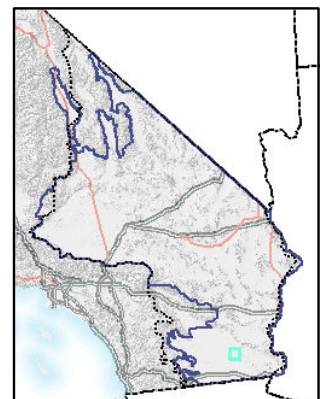
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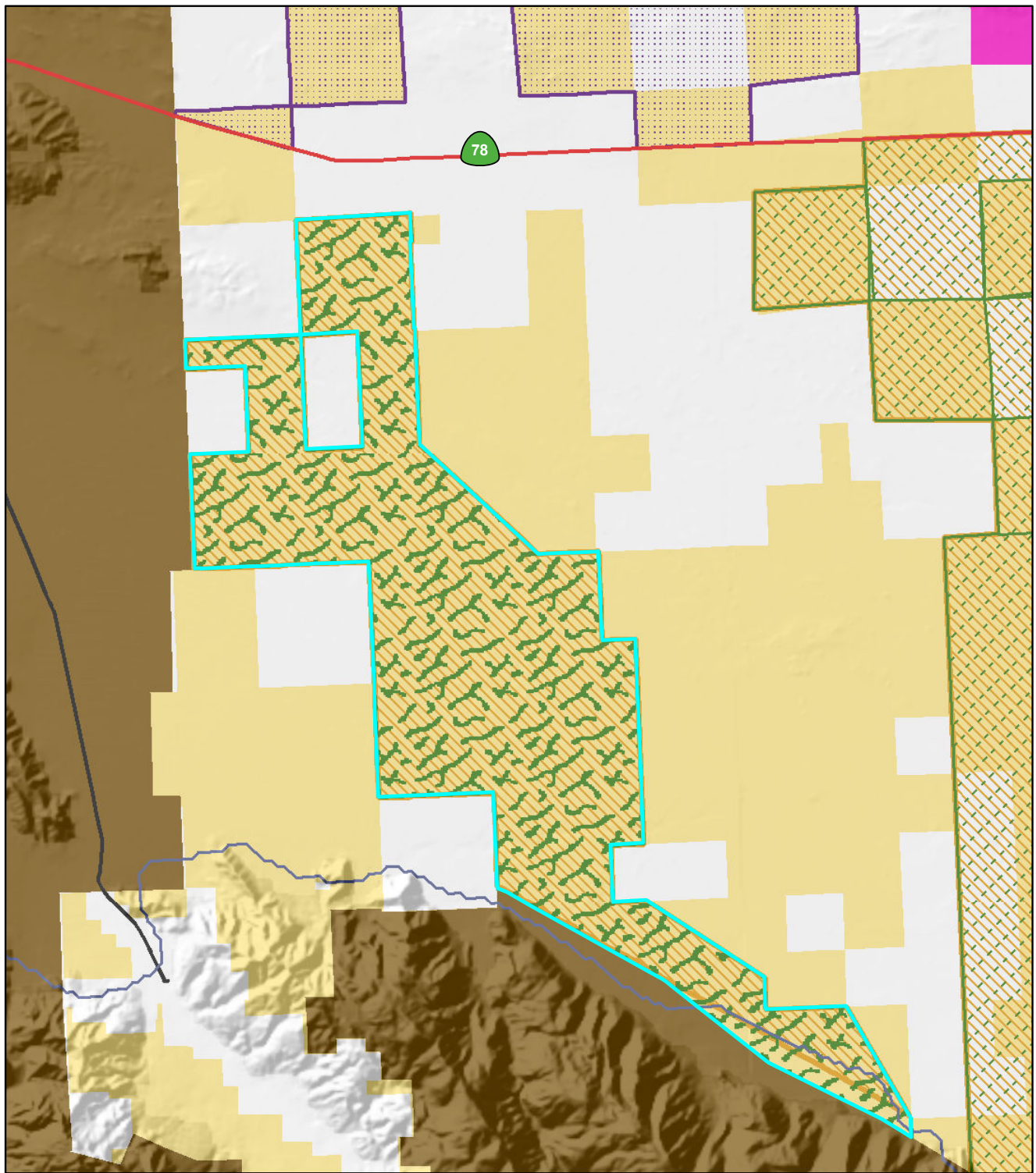


8/13/2015



Draft Map Boundaries Subject to Change





### Conservation Footprint

-  Legislatively & Legally Protected Areas
-  National Conservation Lands
- ACEC Boundaries**
-  0.1% Disturbance Cap
-  1% Disturbance Cap

-  DRECP Boundary
-  CDCA Boundary
-  OHV Boundary

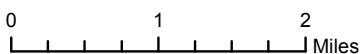
### Renewable Footprint

-  Development Focus Areas

### Land Status

-  Bureau of Land Management

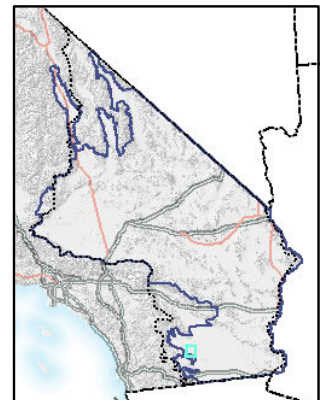
### Shoreline



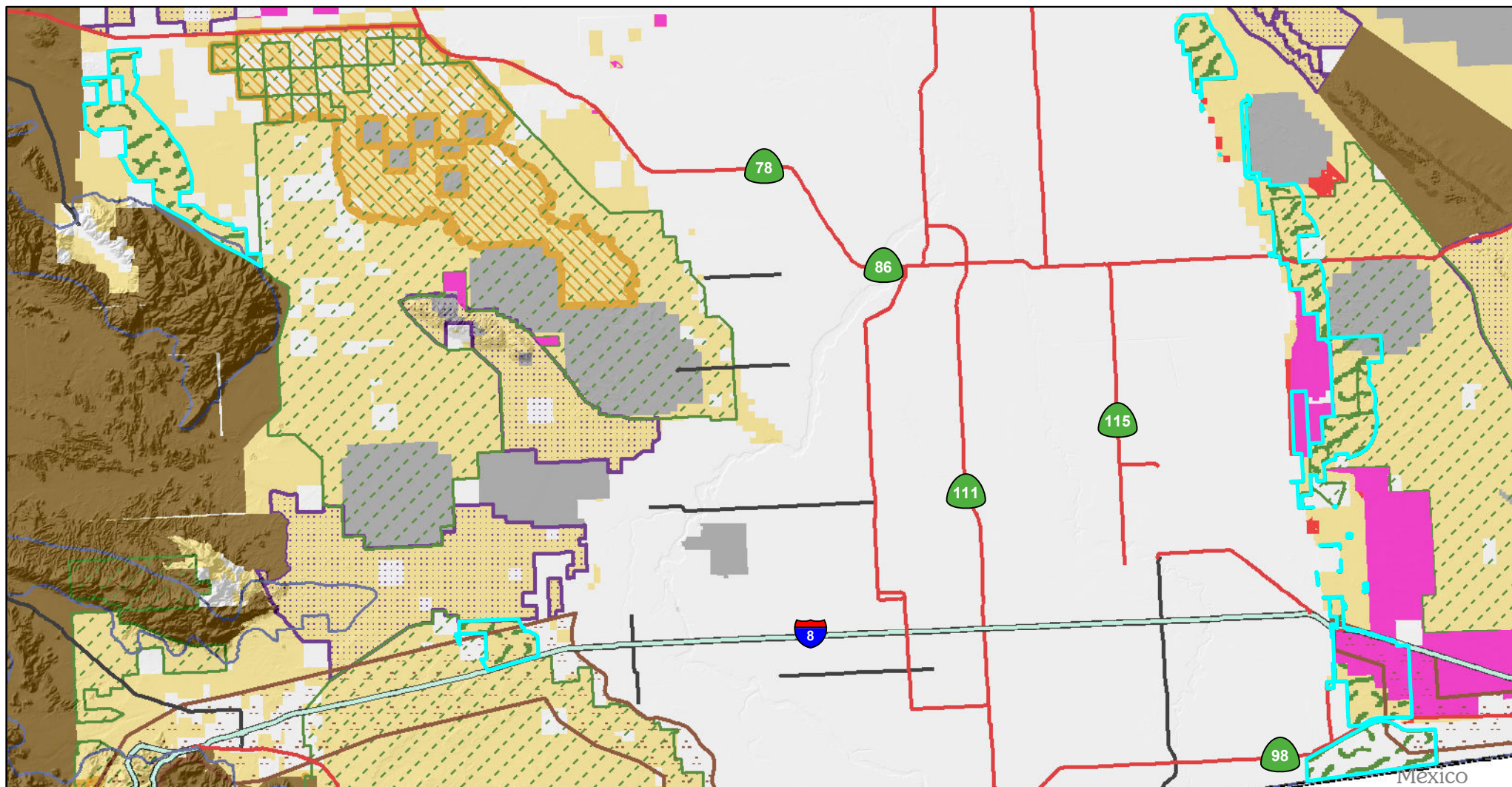
8/13/2015



Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

0 4 8  
Miles

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Development Focus Areas

Variance Lands

### Land Status

Bureau of Land Management

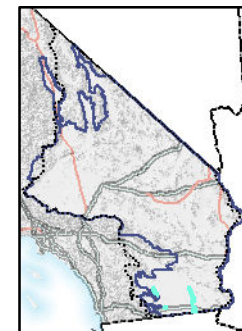
Department of Defense

## Lake Cahuilla

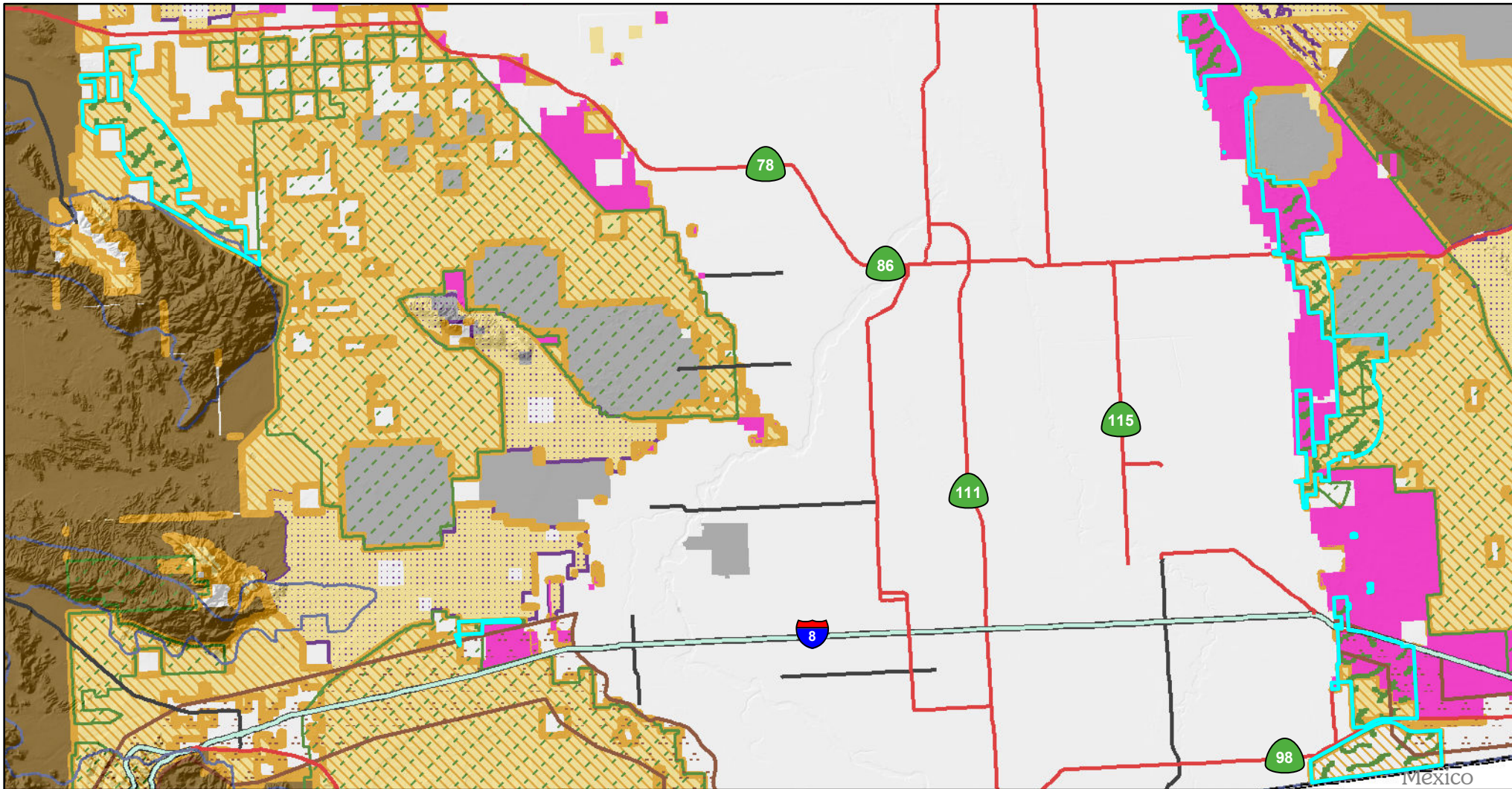
### Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







## Conservation Footprint

 Legislatively & Legally Protected Areas

 National Conservation Lands

## ACEC Boundaries

 0.1% Disturbance Cap

 1% Disturbance Cap

 DRECP Boundary

 CDCA Boundary

 Transmission Corridor

 OHV Boundary

## Renewable Footprint

 Development Focus Areas

## Land Status

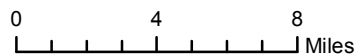
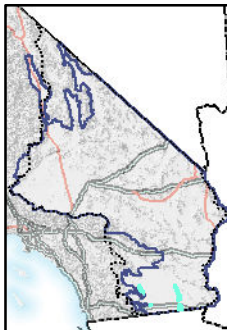
 Bureau of Land Management

 Department of Defense

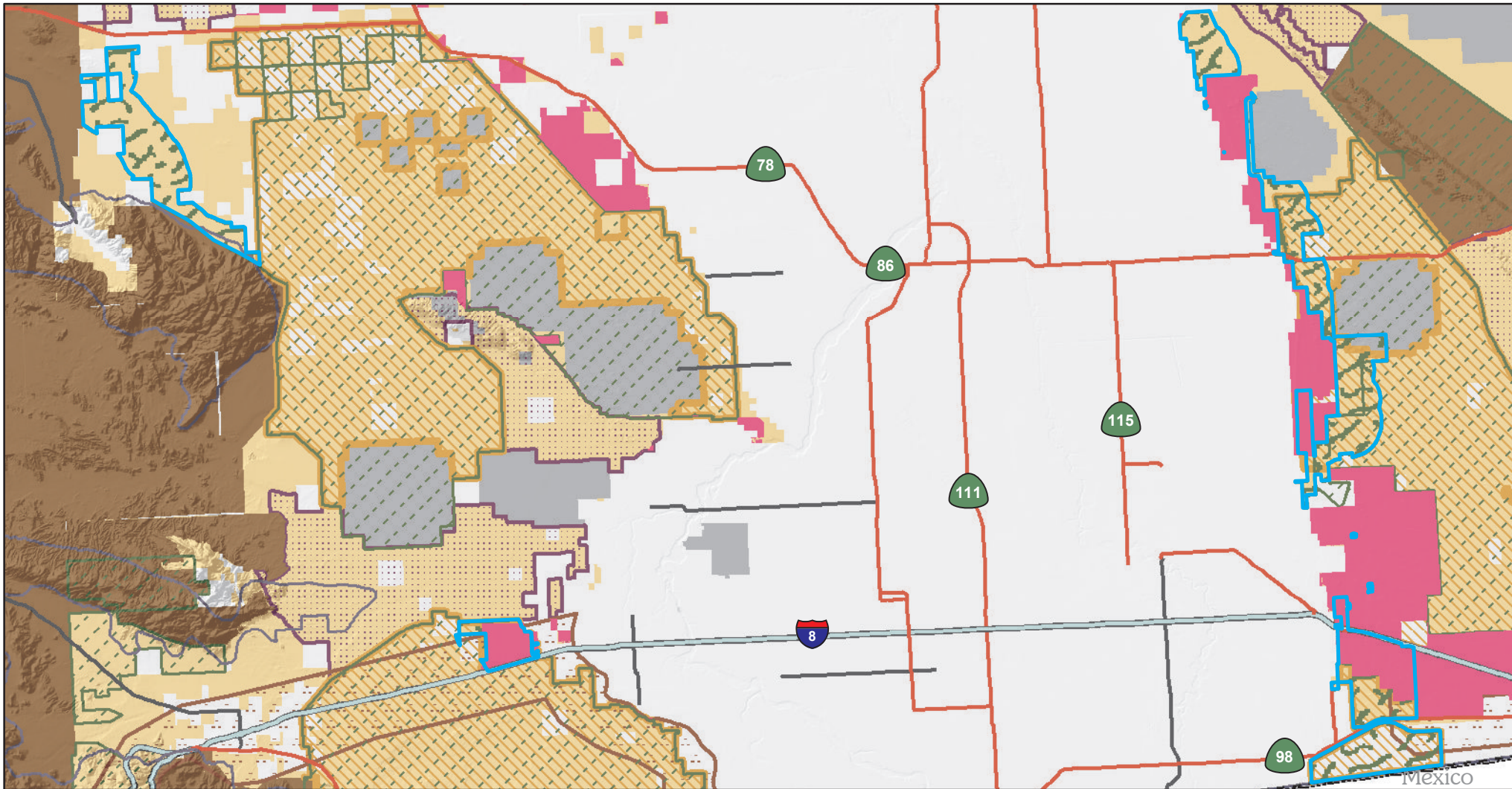
## Lake Cahuilla Alternative 2

8/26/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

Bureau of Land Management

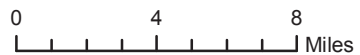
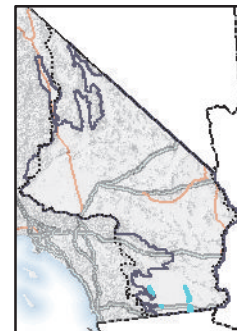
Department of Defense

## Lake Cahuilla

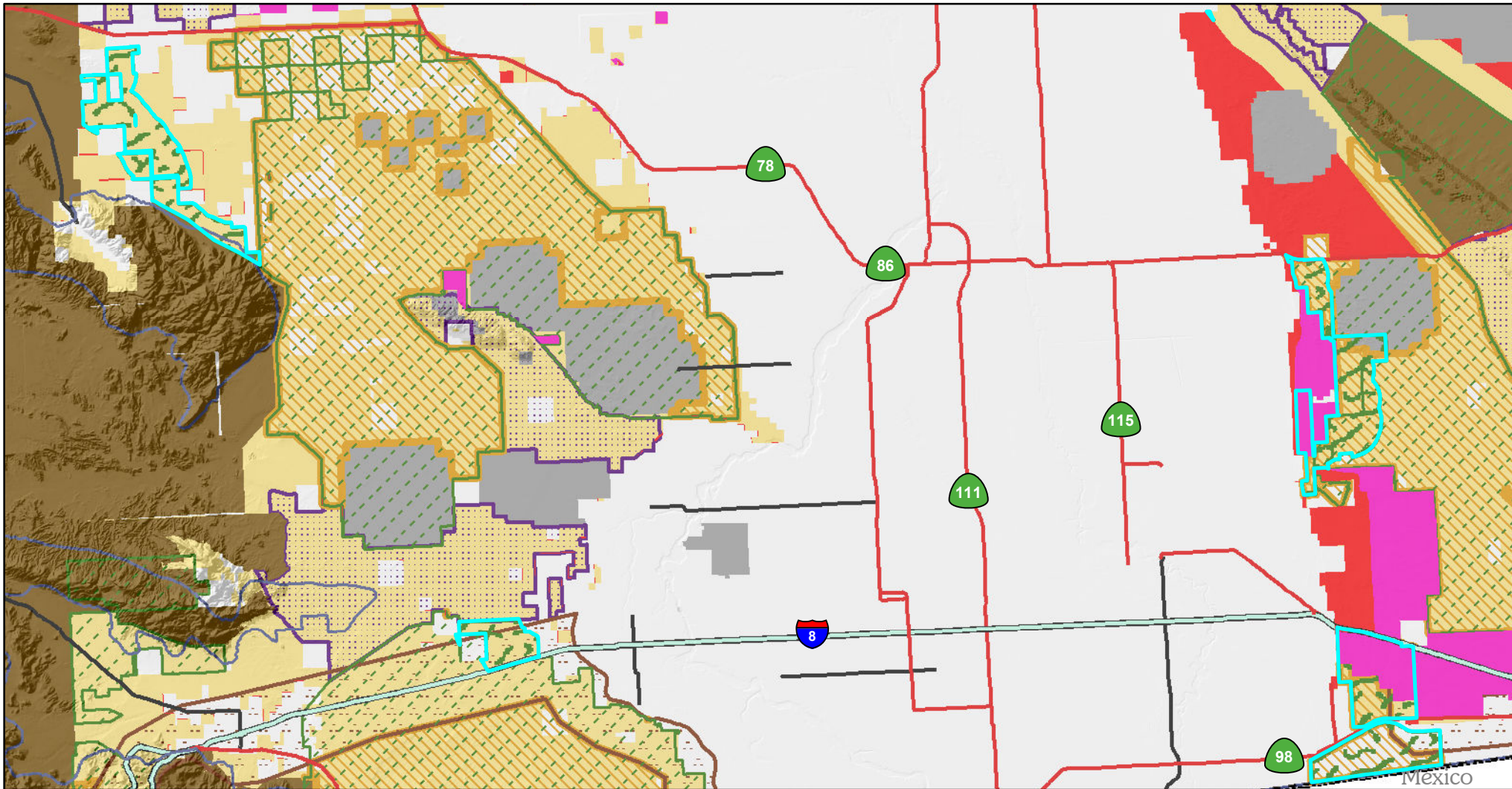
### Alternative 3

8/26/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

- National Conservation Lands
- Legislatively & Legally Protected Areas

### ACEC Boundaries

- 0.1% Disturbance Cap
- 1% Disturbance Cap

0 2 4  
Miles

- DRECP Boundary
- CDCA Boundary
- Transmission Corridor
- OHV Boundary

### Renewable Footprint

- Development Focus Areas
- Variance Lands

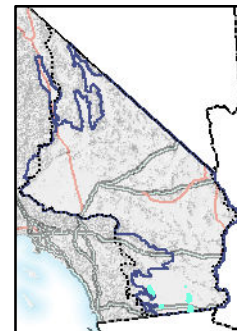
### Land Status

- Bureau of Land Management
- Department of Defense

## Lake Cahuilla Alternative 4

8/27/2015

Draft Map Boundaries Subject to Change





### Singer Geoglyphs (Gold Basin-Rand Intaglios)

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location :** The Singer Geoglyphs ACEC is located in central Imperial County, approximately 33 miles east of Brawley, California. It is south of the Mesquite Gold Mine and Highway 78.

**Nationally Significant Values:**

**Cultural:** This unit contains a significant type of prehistoric archaeological site, geoglyphs (also known as intaglios), that are extremely susceptible to disturbance. The Singer Geoglyphs have been determined eligible for listing in the National Register of Historic Places (NRHP) as one component of a thematic nomination. This provides the Singer Geoglyphs with formal federal recognition, considered nationally significant because of their rarity and unique expression of Native American culture.

**Scientific:** Potential scientific research opportunities are also present. Archaeologists generally consider geoglyphs to represent physical manifestations of mythological or cosmological aspects of Native American culture. Ground figures go well beyond the usual study of stone tools and ceramic fragments into the very ethnic fabric of prehistoric people. Prehistoric archaeological sites with scientific information potential that make them eligible for listing in the NRHP are located within this unit.

**Special Designations/Management Plan/Date:** ACEC Plan No. 67, 08/08/1986

**Relevance and Importance Criteria:** This area was designated to protect archaeological resources including culturally important geoglyphs, This ACEC also contains the fairy duster plant, considered by the California Native Plant Society to be a rare/endangered species in California.

**Overarching Goals:** To protect and preserve to the greatest extent possible representative samples of the full array of the CDCA's cultural and paleontological resources for the benefit of the scientific and socio-cultural use by present and future generations.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

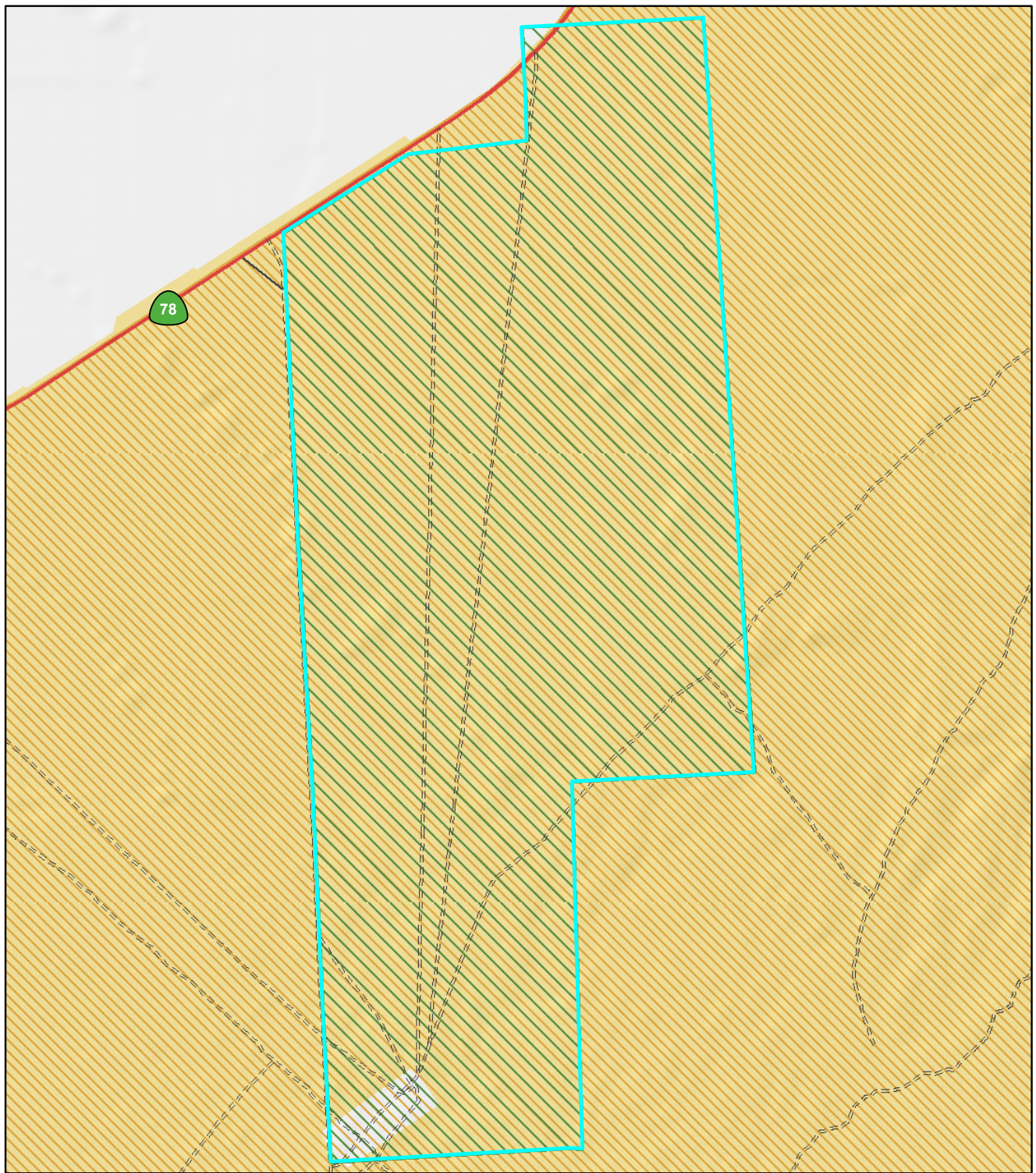
| <b>Designation and Acreage by Alternative:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |                       |                                               |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|-----------------------------------------------|----------------------|
| Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation          | ACEC Disturbance Cap |
| No Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                    | 1,900                 | 0                                             | NA                   |
| Preferred Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,900                                                | 1,900                 | 0                                             | 0.5%                 |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                    | 1,900                 | 0                                             | 1%                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,900                                                | 1,900                 | 0                                             | 0.5, 1%              |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,900                                                | 1,900                 | 0                                             | 0.5, 1%              |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                    | 1,900                 | 0                                             | 0.5, 1%              |
| <b>* Acreage values are for BLM managed lands</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |                       |                                               |                      |
| <b>Objectives (desired future conditions)/Allowable Uses/Management Actions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |                       | <b>Resource</b>                               |                      |
| <p>Objective: Minimize soil disturbance.</p> <p>Objective: Minimize disturbance to washes that would result in negative ecological consequences to wildlife and plant communities dependent upon them.</p> <p>Management Action: Monitor to ensure materials are not being dumped directly into washes.</p> <p>Objective: Protect air quality and visibility standards in accordance with the Southeast Desert Air Basin nonattainment standards.</p> <p>Management Action: Coordinate with the California Environmental Protection Agency Air Resources Board.</p> <p>Objective: Manage the ACEC within the standards for visibility-reducing particles, and attainment for other criteria in accordance with the standards set by the Imperial County Air Pollution Control District.</p> <p>Management Action: Coordinate with the Imperial County Air Pollution Control District.</p> |                                                      |                       | Soil, water, air                              |                      |
| Vegetation within the ACEC conforms to drainage patterns. The terraces upon which the geoglyphs have been fashioned largely lack plant life. Sandy washes, however, hold an abundant display and variety of desert plants. These include palo verde, ironwood, ocotillo, barrel cactus, cholla, brittle bush, creosote, and a number of others. The fairy duster is the only sensitive species. This is considered by the California Native Plant Society to be rare or endangered in California, although it is more common elsewhere.                                                                                                                                                                                                                                                                                                                                                   |                                                      |                       | Vegetation – Including special status species |                      |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <p>Objective: Maintain robust populations of rare native plants.<br/> Management Action: Manage vehicular traffic to stay on designated OHV routes.<br/> Management Action: Eradicate and control the spread of invasive and noxious weeds.</p> <p>Objective: Update the baseline of plant species to track environmental changes.</p> <p>Management Action: Inventory vascular and non-vascular plants, include soil crust species, in the ACEC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |
| <p>The faunal community is typical of the lower Colorado Desert. Common species include zebra-tailed lizard, roundtail ground squirrel, coyote, black-tailed gnatcatcher, white-crowned sparrow, and blacktail jackrabbit. Kit fox are also present, and the area is used occasionally by burro mule deer. The species of highest management concern is the desert tortoise which also has been found to warrant inclusion by the U.S. Fish and Wildlife Service on its Endangered Species list. The tortoise is present in low numbers in the ACEC.</p> <p>Objective: Maintain and enhance habitat that supports native wildlife; Desert Tortoise, Mule Deer, Bighorn Sheep.</p> <p>Management Action: Monitor wildlife for habitat and population change.<br/> Management Action: Allow construction of wildlife waters as appropriate.</p> <p>Objective: Manage landscape to ensure wildlife passage and connectivity between wildlife populations.</p> | <p>Fish and Wildlife -<br/> Including special status species</p> |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Provide for the protection of the highly sensitive geoglyphs.<br/> Management Action: Monitor and maintain the fences that enclose the geoglyphs.<br/> Management Action: Monitor the creation of illegal routes and perform route restoration as needed.<br/> Management Action: Conduct patrols and surveillance.<br/> Management Action: Manage vehicular traffic to stay on designated OHV Routes.<br/> Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the cultural resource values present within the ACEC.</p>                                                                                                                                                                                                                                              | <p>Cultural Resources</p>                                        |
| <p>Objective: Manage the route of travel network to fulfill requirements of the original CDCA Plan and the NECO Plan Amendment.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Trails and Travel<br/> Management</p>                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <p>Management Action: Provide signage and maps to the public to inform them of route locations and regulations.</p> <p>Management Action: Increase compliance</p> <p>Management Action: Monitor the creation of illegal routes and perform route restoration as needed.</p>                                                                                                                                         |                                                                                |
| <p>Objective: Encourage compliance with ACEC management recommendations</p> <p>Management Action: Increase compliance with protection of resources in the area.</p> <p>Management Action: Provide signage and maps to the public to inform them of route locations and regulations.</p>                                                                                                                             | Recreation                                                                     |
| <p>Objective: Consolidate through tenure adjustment.</p> <p>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.</p>                                                                                                                                                                                                                                                       | Land Tenure                                                                    |
| <p>Objective: Avoid disturbing sensitive species habitat and important cultural sites.</p> <p>Management Action 1: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.</p> <p>Management Action 2: Limit energy transmission line ROWs to designated utility corridors.</p>       | Rights of Way                                                                  |
| <p>Not available for renewable energy.</p> <p>Geothermal: ACECs are closed to geothermal leasing and development unless they overlap with a DFA where geothermal is allowed. Where there is overlap, ACECs are open to geothermal leasing with an NSO stipulation.</p>                                                                                                                                              | Renewable Energy                                                               |
| <p>Objective: Preserve geoglyphs and restrict surface disturbance around them.</p> <p>Allowable Uses: Limited additional mineral activity. Sand and gravel materials are present, but these are widely available throughout the broad alluvial fans emanating from the chocolate mountains.</p> <p>Management Action: Review any projects that would contribute to surface disturbance on a case by case basis.</p> | <p>Locatable Minerals</p> <p>Mineral Materials</p> <p>Non-Energy Leasables</p> |





### Conservation Footprint

-  National Conservation Lands 
  DRECP Boundary 
  Bureau of Land Management
- ACEC Boundaries**
 0.5% Disturbance Cap
  CDCA Boundary

## Singer Geoglyphs

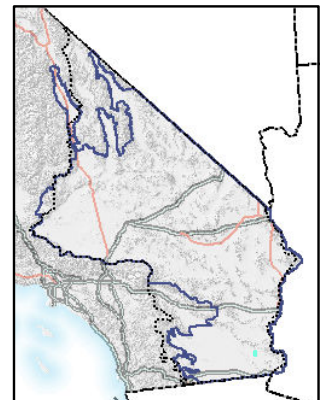


6/25/2015

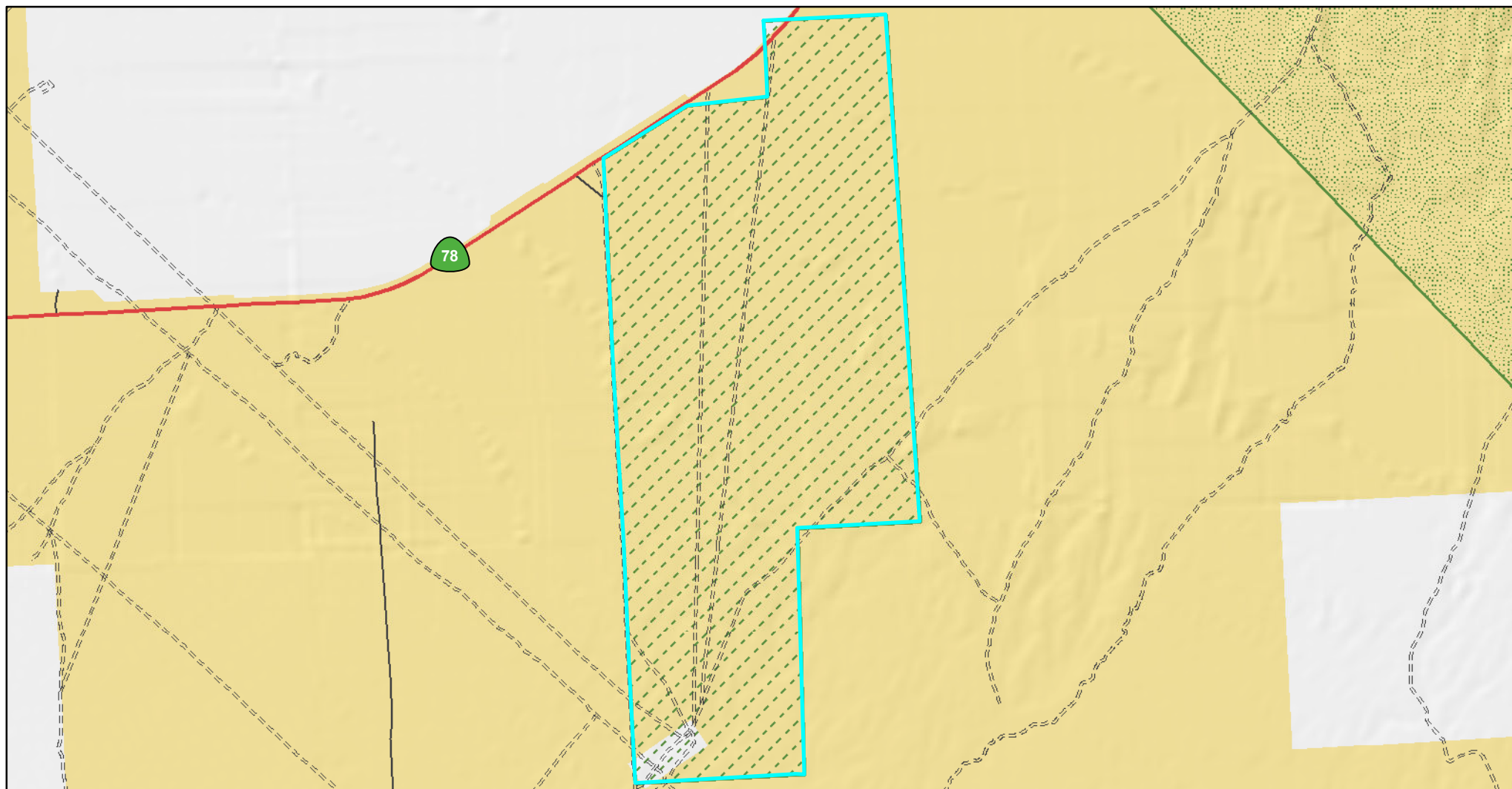


0 0.25 0.5  
Miles

Draft Map Boundaries Subject to Change







## Conservation Footprint

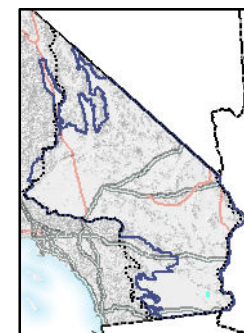
ACEC Boundaries  1% Disturbance Cap  Wildlife Allocation  
 DRECP Boundary  CDCA Boundary  Bureau of Land Management

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Miles

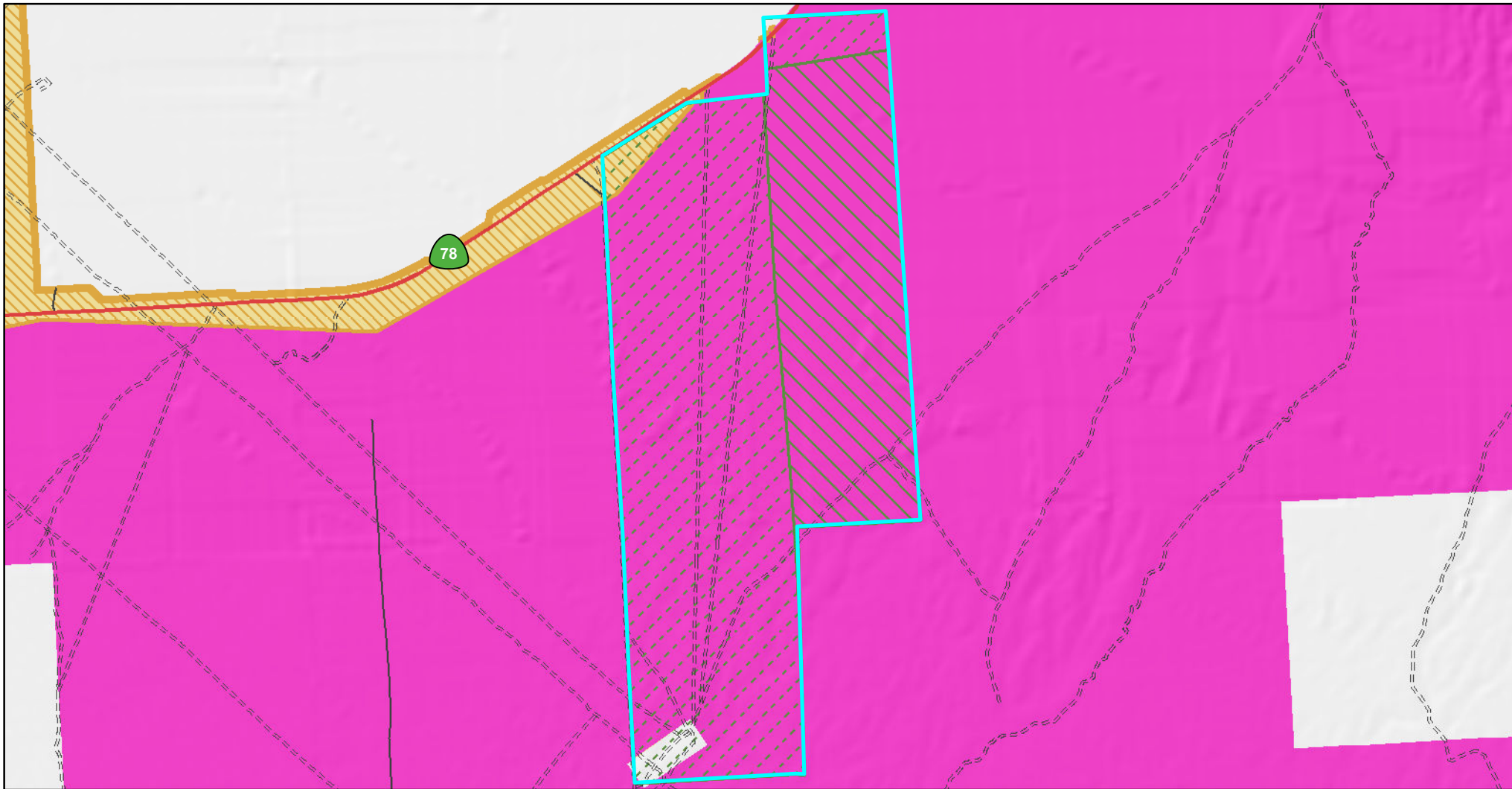
## Singer Geoglyphs Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







## Conservation Footprint

 National Conservation Lands

 DRECP Boundary

ACEC Boundaries

 CDCA Boundary

 0.5% Disturbance Cap

Renewable Footprint

 1% Disturbance Cap

 Development Focus Areas

Land Status

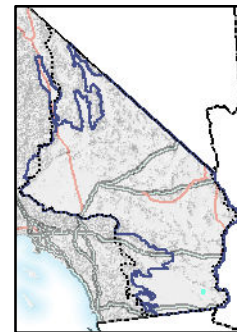
 Bureau of Land Management

## Singer Geoglyphs Alternative 2

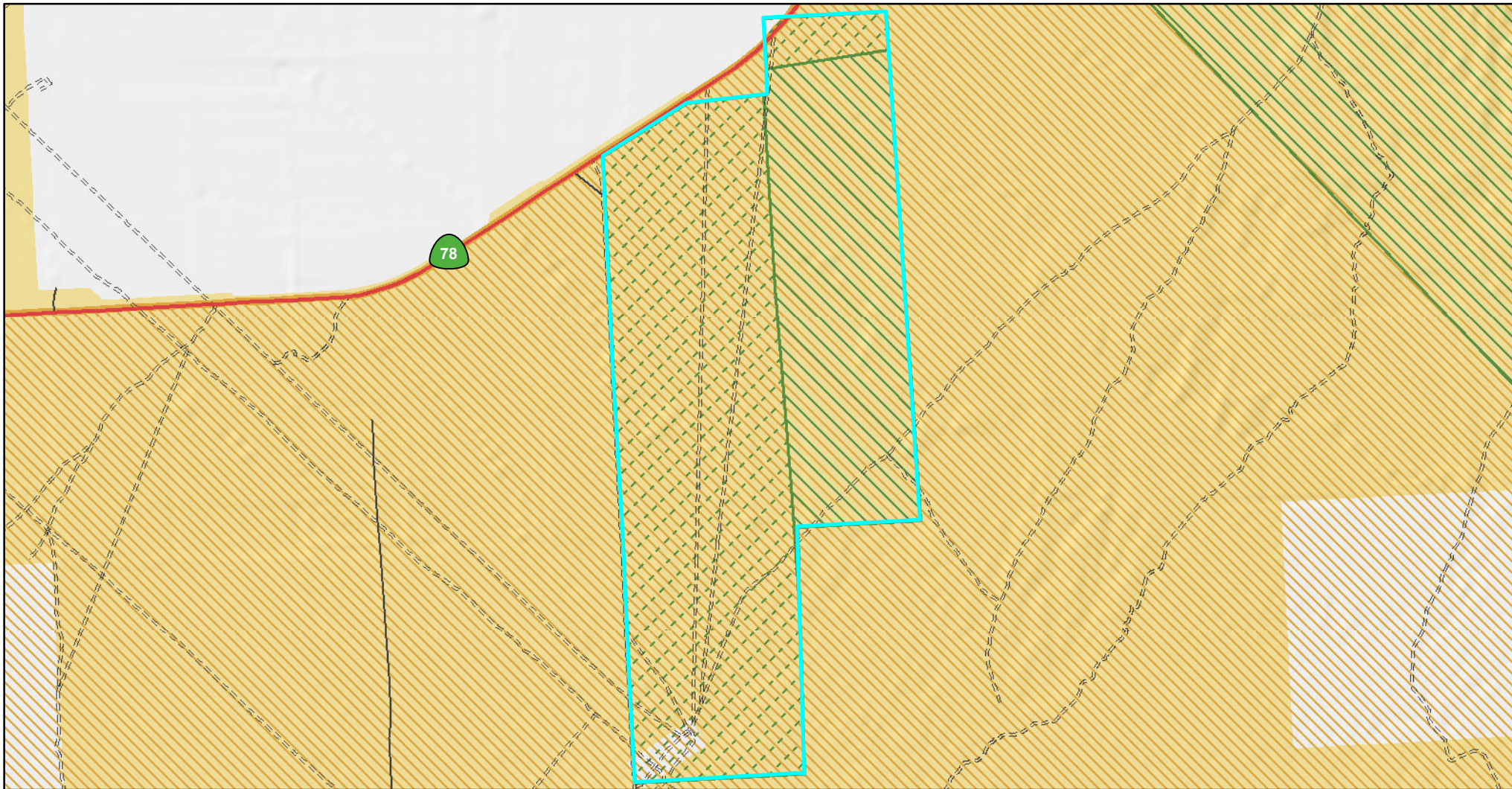
8/26/2015

Draft Map Boundaries Subject to Change

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Miles







### Conservation Footprint

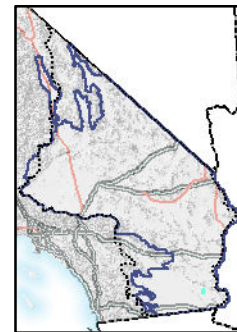
- |                                                                                                               |                                                                                                    |                                                                                                               |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  National Conservation Lands |  DRECP Boundary | Land Status                                                                                                   |
| ACEC Boundaries                                                                                               |  CDCA Boundary  |  Bureau of Land Management |
|  0.5% Disturbance Cap        |                                                                                                    |                                                                                                               |
|  1% Disturbance Cap          |                                                                                                    |                                                                                                               |

0 0.25 0.5  
Miles

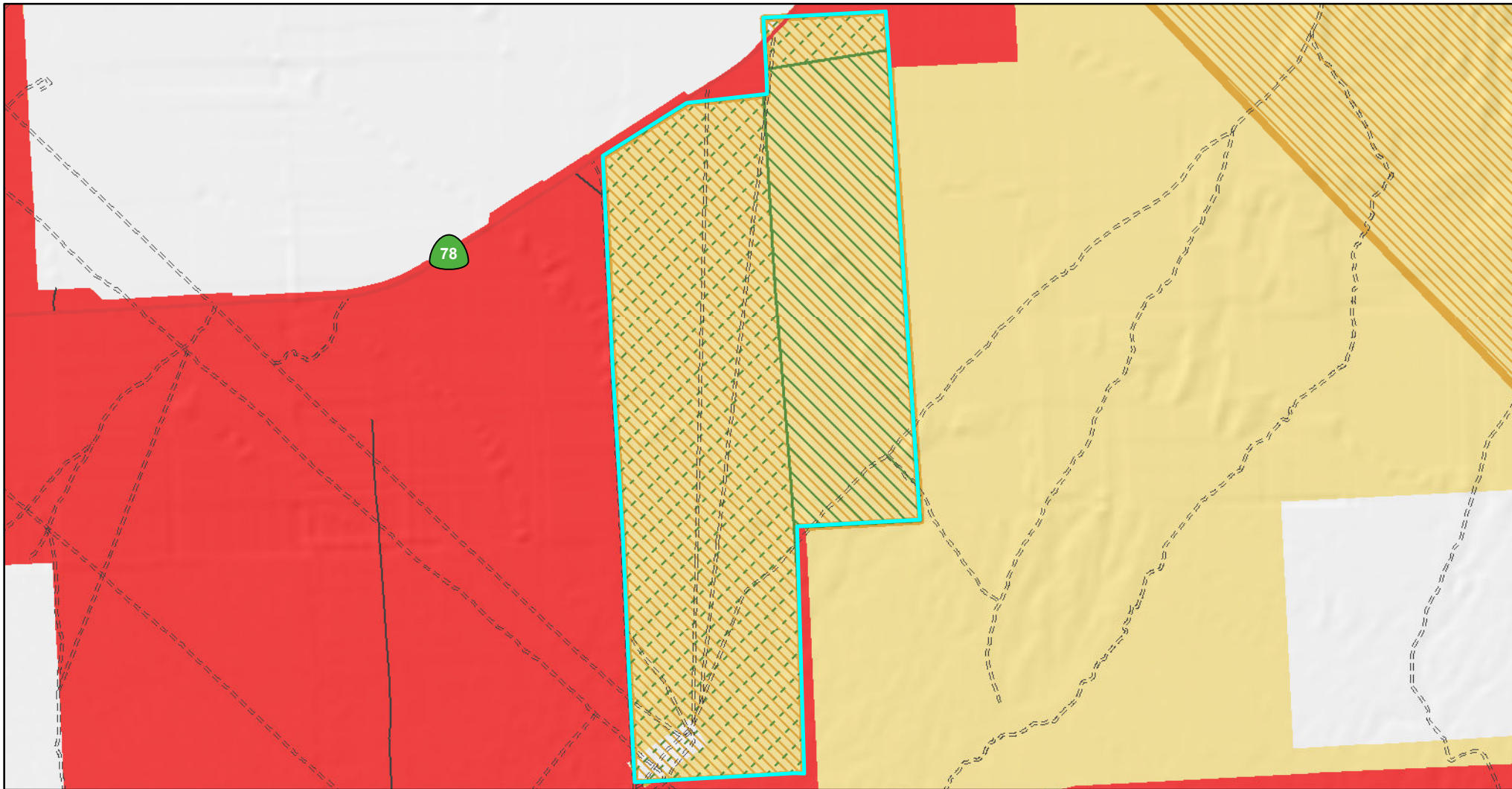
## Singer Geoglyphs Alternative 3

8/27/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

National Conservation Lands

DRECP Boundary

Land Status

ACEC Boundaries

CDCA Boundary

Bureau of Land Management

0.5% Disturbance Cap

Renewable Footprint

1% Disturbance Cap

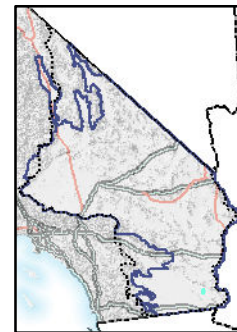
Variance Lands

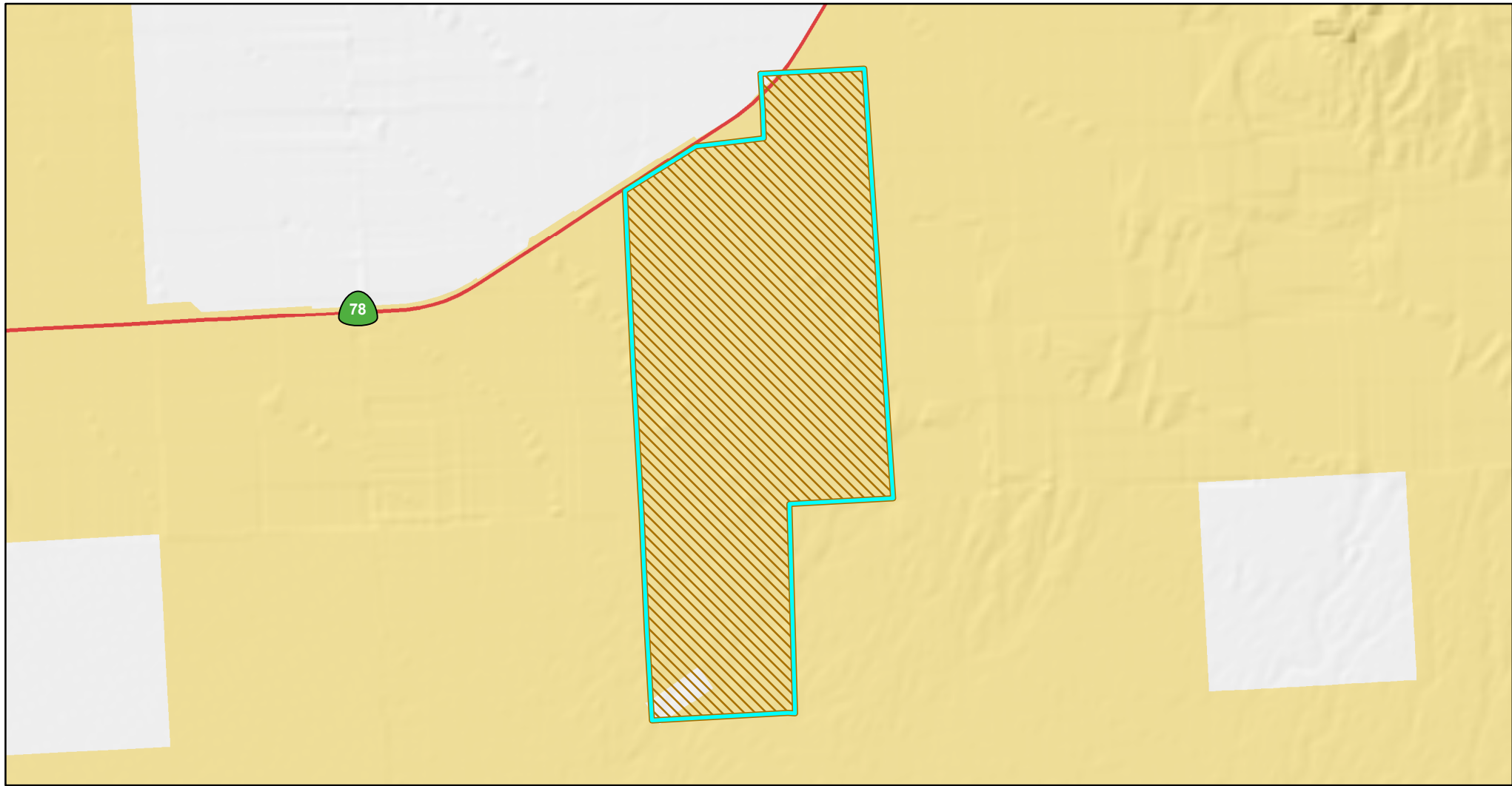
0 0.25 0.5  
Miles

## Singer Geoglyphs Alternative 4

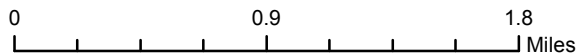
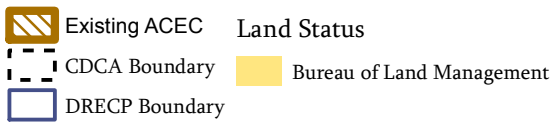
8/27/2015

Draft Map Boundaries Subject to Change





### Conservation Footprint

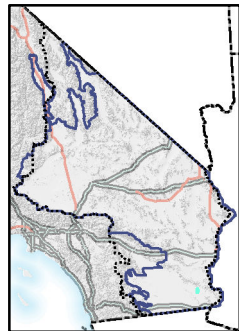


## Singer Geoglyphs

No Action

9/15/2015

Draft Map Boundaries Subject to Change





## West Mesa

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location** – The existing West Mesa ACEC is located approximately eight miles north of Interstate 8, 18 miles west of Hwy 111, and eight miles south of Hwy 78. It is situated between the Fish Creek Mountain Wilderness and Plaster City Open OHV Recreation Area.

### **Nationally Significant Values:**

**Cultural:** The proposed conservation lands and ACEC contain sensitive and significant cultural resources such as habitation sites, geoglyphs, prehistoric trails, and areas of traditional and sacred values to Native American tribes. The area also contains a portion of the Juan Bautista de Anza National Historic Trail. The eastern portion of the ACEC also contains shoreline of ancient Lake Cahuilla where prehistoric fish traps and significant habitation sites have been recorded. These archaeological resources are listed in, or eligible for listing in, the National Register of Historic Places (NRHP).

**Ecological:** This ACEC provides important habitat for the Flat-tailed horned lizard and supports rare plant populations and other wildlife Species of Concern including Burrowing owl, Palm Springs little pocket mouse and Colorado desert fringed-toed lizard. The conservation lands and ACEC would protect a contiguous landscape connecting the San Sebastian Marsh/San Felipe Creek with the Fish Creek Mountains and Anza-Borrego Desert State Park. This conserved landscape would enhance the protections and habitat for the species listed above as well as numerous other species dependent on this landscape.

**Scientific:** Prehistoric archaeological sites with scientific information potential that make them eligible for listing in the NRHP are located within this ACEC. Significant paleontological localities containing vertebrate fossils are located within this ACEC.

**Special Designations/Management Plan/Date:** CDCA 1987 plan amendment

### **Relevance and Importance Criteria:**

**Biological:** This ACEC is located on the western side of Imperial County, between the Superstition Mountains, Fish Creek, and the Coyote Mountains in the Colorado Desert – a subdivision of the Sonoran Desert. Mountains and other landforms within and surrounding the ACEC are considered sacred to local Indian tribes; viewsheds within this unit are very important to local tribes. Most surface management is administered by the BLM through a Memorandum of Understanding with the Bureau of Reclamation (BOR); the remainder of lands is leased to the Navy by the BOR, or is under private ownership. The Navy uses the land as target zones or for parachute drop zones. The BLM land within the ACEC is designated as Multiple Use Class “Limited”. Casual use includes recreation activities such as OHV riding, camping, hiking, and rockhounding. Mineralization is not well developed or occurs at depths below a large quantity of overburden material, making mining uneconomical.

The ACEC is largely covered by a dry substrate, endemic to vegetation communities and wildlife species adapted to the harsh environment. Large washes, created from watersheds originating from surrounding mountains or resulting from monsoon rainfall, provide microclimates for plant species requiring additional water. The primary plant communities in the ACEC are Creosote Bush Scrub, with some Desert Psammophytic Scrub occupation the eastern portion, and Microphyll Woodland (restricted to only a few major washes). Each of the three plant communities provides habitat features preferred by a variety of wildlife species. The ACEC includes a variety of mammal, reptile, and avian species.

**Proposed Expansion:** This expansion is proposed to fulfill the Flat-tailed horned lizard Conservation Strategy. The northern boundary of the ACEC would extend to the San Sebastian ACEC, the western boundary would expand to the Fish Creek Mountains Wilderness, the southern boundary would expand to the southern unit of Plaster City OHV Area, and the eastern boundary would expand approximately nine miles to the east of the existing ACEC boundary.

**National Historic and Scenic Trails:** This unit overlaps a portion of the Juan Bautista de Anza National Historic Trail.

**Recreation Area:** This unit overlaps with the Superstition Mountain SRMA.

**Overarching Goals:** To protect the biological, cultural and paleontological values within the ACEC while allowing for a variety of uses.

Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

**Designation and Acreage by Alternative:**

| Alternative           | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation | ACEC Disturbance Cap |
|-----------------------|------------------------------------------------------|-----------------------|--------------------------------------|----------------------|
| No Action             | 0                                                    | 20,300**              | 0                                    | 1%                   |
| Preferred Alternative | 81,730                                               | 82,593                | 0                                    | 1%                   |
| 1                     | 24,800                                               | 115,200               | 0                                    | 1%                   |
| 2                     | 115,100                                              | 115,200               | 0                                    | 1%                   |
| 3                     | 80,300                                               | 115,200               | 0                                    | 1%                   |
| 4                     | 80,400                                               | 115,200               | 0                                    | 1%                   |

\* Acreage values are for BLM managed lands

\*\* Acreage value differs from the No Action Alternative in the DEIS due to incorrect value for the existing ACEC in the DIES



| Objectives (desired future condition)/Allowable Uses/Management Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Resource                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <p>Objective: Minimize soil disturbance.<br/> Management Action: Maintain confinement of OHV activity to designated locations.<br/> Management Action: Maintain signage informing OHV users to avoid riding outside of designated locations.<br/> Management Action: Require all undertakings with the potential to spill hazardous material (e.g., motor oil, coolant) to follow proper federal and state reporting requirements after a spill.</p> <p>Objective: Minimize disturbance to washes that would result in negative ecological consequences to wildlife and plant communities dependent upon them.<br/> Management Action: Monitor to ensure materials are not being dumped directly into washes.<br/> Management Action: Require all undertakings with the potential to spill hazardous material (e.g., motor oil, coolant) to follow proper federal and state reporting requirements after a spill to avoid material(s) contaminating water.</p> <p>Objective: Protect air quality and visibility standards in accordance with the Southeast Desert Air Basin nonattainment standards.<br/> Management Action: Coordinate with the California Environmental Protection Agency Air Resources Board.</p> <p>Objective: Manage the ACEC within the standards for visibility-reducing particles, and attainment for other criteria in accordance with the standards set by the Imperial County Air Pollution Control District.<br/> Management Action: Coordinate with the Imperial County Air Pollution Control District.</p> | <p>Soil, water, air</p>                                 |
| <p>Objective: Protect and enhance robust populations of both rare and common native plants. Unique plant assemblages exist within this ACEC, including saltbush (<i>Atriplex</i>), daleas (<i>Dalea emoryi</i>) and Mormon tea (<i>Ephedra trifurca</i>) can be important to wildlife because of their ability to produce seeds.<br/> Management Action: Maintain confinement of OHV activity to designated locations.<br/> Management Action: Maintain signage informing OHV users to avoid riding outside of designated locations.<br/> Management Action: Eradicate and control the spread of invasive and noxious weeds.</p> <p>Objective: Create a baseline of plant species to track environmental changes.<br/> Management Action: Inventory vascular and non-vascular plants, including soils crust species, in the ACEC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Vegetation (incl. special status species)</p>        |
| <p>Objective: Protect and enhance wildlife populations within the ACEC. Special Status species exist within the ACEC, including Le Conte's Trasher (<i>Toxostoma lecontei</i>), black-tailed gnatcatcher (<i>Poliophtila melanura</i>), and Flat-tailed horned lizard (<i>Phrynosoma mcallii</i>).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Fish and Wildlife (incl. special status species)</p> |

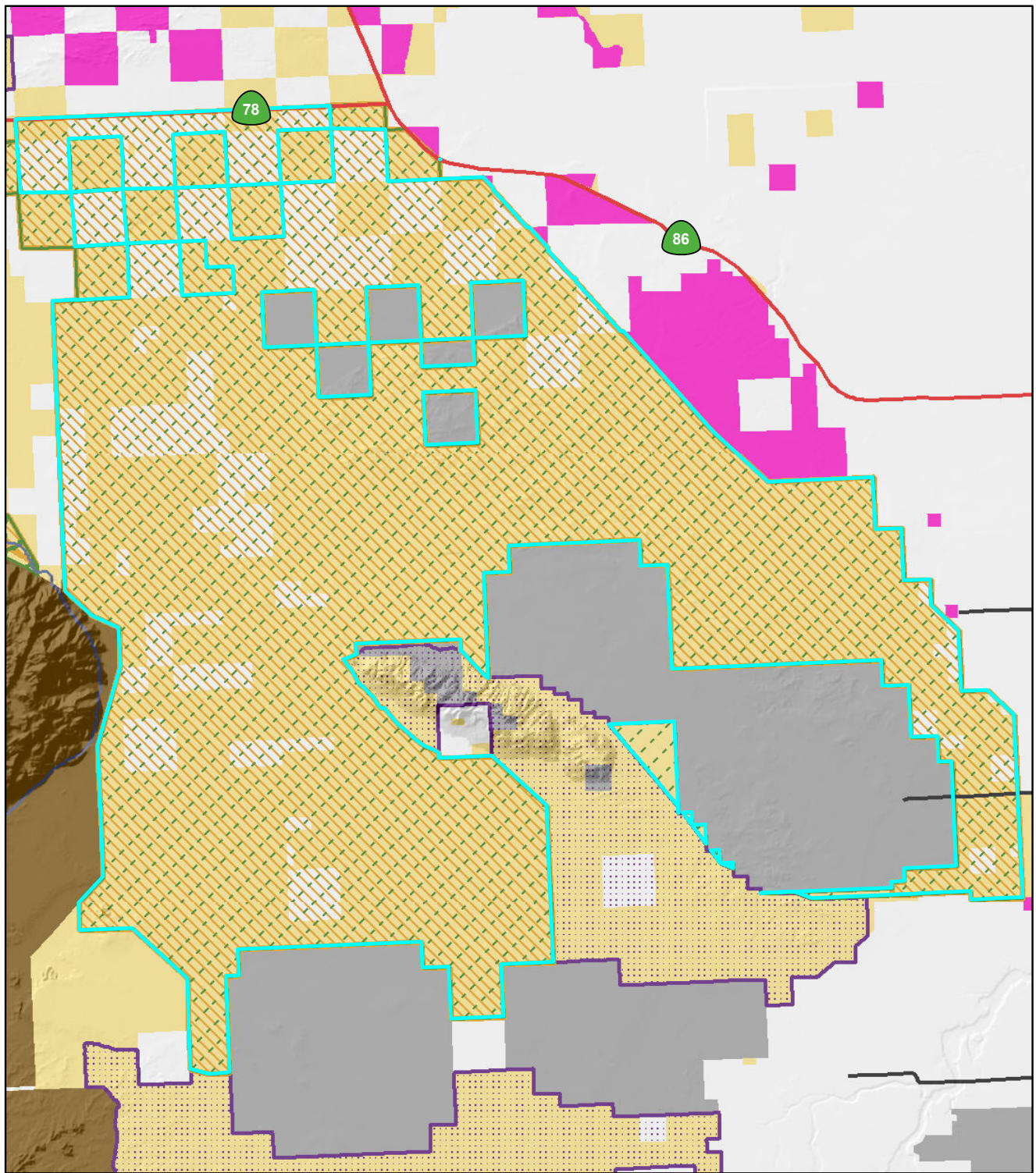
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <p>Management Action: Maintain confinement of OHV activity to designated locations.</p> <p>Management Action: Maintain signage informing OHV users to avoid riding outside of designated locations.</p> <p>Management Action: Manage landscape to ensure wildlife passage and connectivity.</p> <p>Objective: Protect and enhance critical Flat-tailed horned lizard habitat.</p> <p>Management Action: Determine the effect of pesticide spraying on the Flat-tailed horned lizard and avoid chemicals that would result in an adverse effect to the species.</p> <p>Management Action: Continue to participate actively in an Interagency Coordinating Committee to coordinate the management of the Flat-tailed horned lizard and its habitat.</p> <p>Management Action: Maintain camping and OHV closure in critical habitat areas.</p> <p>Management Action: Rehabilitate closed and unauthorized routes, and damaged habitat areas.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Provide for maximum protection of highly sensitive cultural resources.</p> <p>Management Action: Manage vehicular traffic to stay on designated OHV Routes.</p> <p>Management Action: Nominate sensitive archaeological resources within the ACEC for listing in the National Register of Historic Places.</p> <p>Management Action: Increase compliance with protection of resources in the area.</p> <p>Management Action: Develop baseline assessment of specific natural and man-made threats to cultural resources in the ACEC (i.e., erosion, looting, vandalism, and OHV activities).</p> <p>Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the cultural resources values present within the ACEC.</p> <p>Management Action: Rehabilitate closed and unauthorized routes, and damaged areas to discourage travel to confidential locations of sensitive archaeological resources.</p> <p>Objective: Establish Baseline Resource Information/Identify and Document Cultural Resources</p> <p>Management Action: Integrate survey information into BLM cultural resources management systems (cultural GIS geodatabase).</p> <p>Objective: Increase public awareness of the cultural values in the ACEC.</p> <p>Management Actions: Where appropriate and with consideration of site protection and confidentiality, develop and provide interpretation to the public about cultural resources, including signs, interpretive panels and kiosks,</p> | Cultural Resources |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| and web-based information.<br>Management Action: Install signs stating no collection of any archaeological resources is allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |
| Objective: Promote cultural history of the ACEC.<br>Management Action: Coordinate with NPS on the management of the Juan Bautista de Anza NHT<br>Management Action: Implement the Juan Bautista de Anza NHT Management Plan.<br>Management Action: Comply with the NHT rule set.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | National Trails              |
| Objective: Protect and monitor paleontological resources.<br>Management Action: Manage and protect fossil resources consistent with the Paleontological Resources Preservation Act and the Omnibus Act.<br>Management Action: Restrict renewable energy projects to one half mile or more from significant paleontological localities.<br>Management Action: Exclude OHV use within one mile of paleontological resources except on designated routes.<br>Management Action: Prohibit casual collection of vertebrate fossils without a permit. Management Action: Develop plans for the inventory, monitoring, and scientific and educational use of paleontological resources as needed.                                                                                                                 | Paleontology                 |
| Objective: Protect the characteristic landscape, including the significant cultural landscape surrounding the Anza NHT.<br><br>Management Actions: Minimize impacts to characteristic landscape by following prescriptions of applicable VRM class.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Visual Resources             |
| Objective: Manage the route of travel network to fulfill requirements of the original CDCA Plan and the WECO Plan Amendment.<br>Management Action: Maintain signage and provide maps to the public to inform them of route locations and regulations.<br><br>Objective: Reverse trend of resource degradation due to OHV and casual ORV use<br>Management Action: Increase compliance with protection of resources in the area.<br>Management Action: Rehabilitate closed and unauthorized routes.                                                                                                                                                                                                                                                                                                         | Trails and Travel Management |
| Objective: Promote dispersed recreation in this area, including casual day use, camping, hunting, target shooting, hiking, and OHV activities.<br><br>Objective: Maintain high health and safety standards for the public.<br>Management Action: Provide Ranger patrols during high-profile events.<br>Management Action: Provide signage and maps for the public to inform them of route locations and regulations.<br>Management Action: Prohibit competitive motorized vehicle events except for the existing approved BLM race route network as of 2015. No new race routes within the ACEC will be added.<br>Management Action: Provide adequate notification of closures or other necessary information (e.g., special hazards) to the public through various methods (e.g., signage, social media). | Recreation                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Objective: Consolidate through tenure adjustment.<br>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Land Tenure                                                     |
| Objective: Protect resource values of the ACEC<br>Management Action 1: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.<br>Management Action 2: Limit energy transmission line ROWs to designated utility corridors.                                                                                                                                                                                                                                                                                                                                                                               | Rights of Way                                                   |
| Closed to renewable energy development.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Renewable Energy                                                |
| Objective: Process applications for mineral development while ensuring mineral development activities are not authorized in areas where new ground disturbance would impact habitat for Special Status species, disturb sensitive cultural resources, or limit or restrict locations within the ACEC that have high recreational values.<br><br>Allowable Uses: Geothermal leasing and mineral material sales with stipulations.<br><br>Management Action: Restrict clay extraction because of the importance of its values to resources and other activities.<br>Management Action: Develop a mineral management plan for the West Mesa ACEC that addresses the high seasonal visitor use to the area, and the unique resource values. | Locatable Minerals<br>Mineral Materials<br>Non-Energy Leasables |





### Conservation Footprint

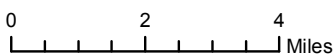
- Legislatively & Legally Protected Areas
- National Conservation Lands
- ACEC Boundaries**
- 0.1% Disturbance Cap
- 1% Disturbance Cap

- DRECP Boundary
- CDCA Boundary
- OHV Boundary
- Renewable Footprint**
- Development Focus Areas

### Land Status

- Bureau of Land Management
- Department of Defense

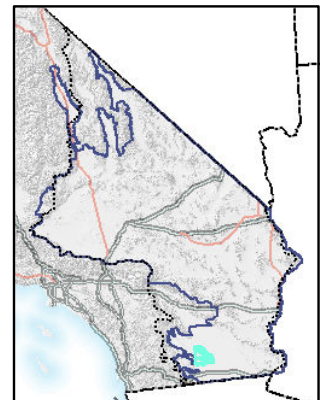
## West Mesa



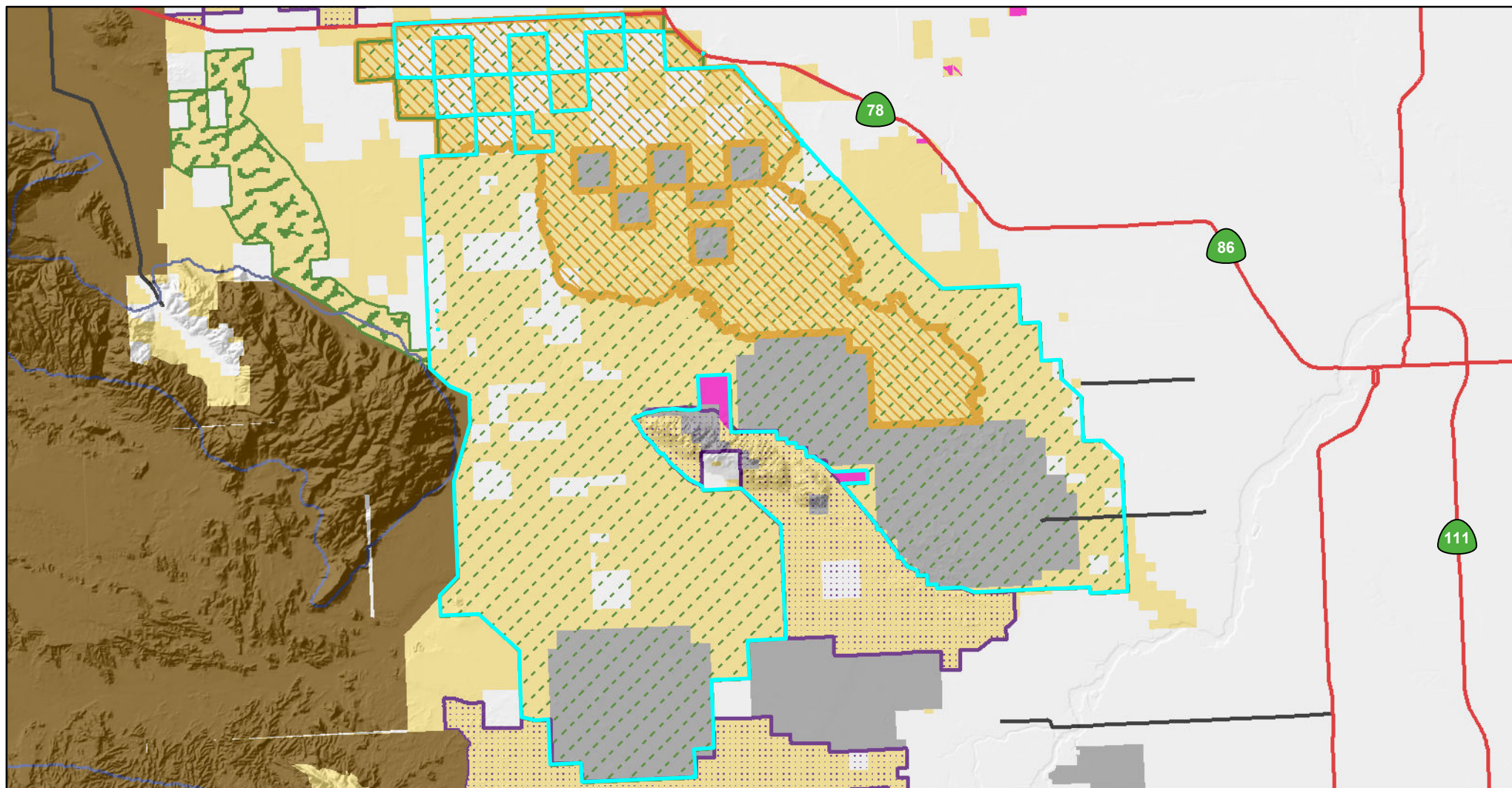
6/25/2015



Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

Bureau of Land Management

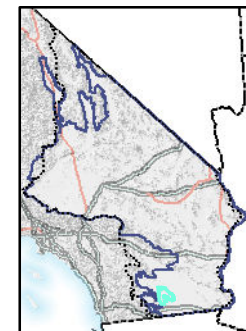
Department of Defense

## West Mesa Alternative 1

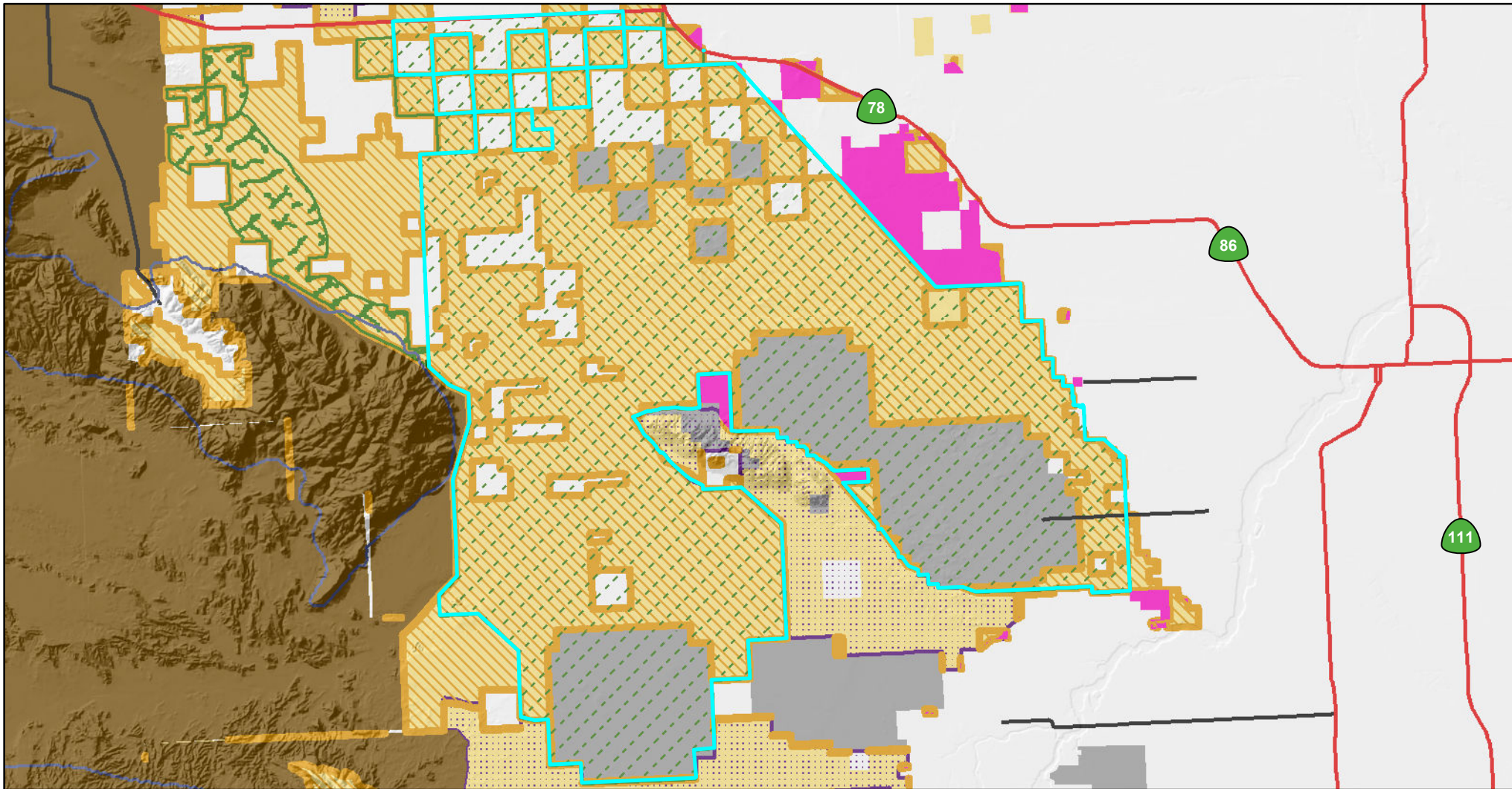
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Draft Map Boundaries Subject to Change

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## Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

Bureau of Land Management

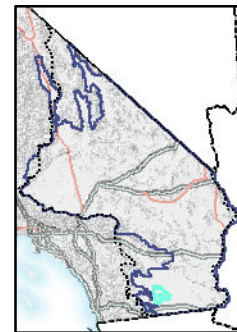
Department of Defense

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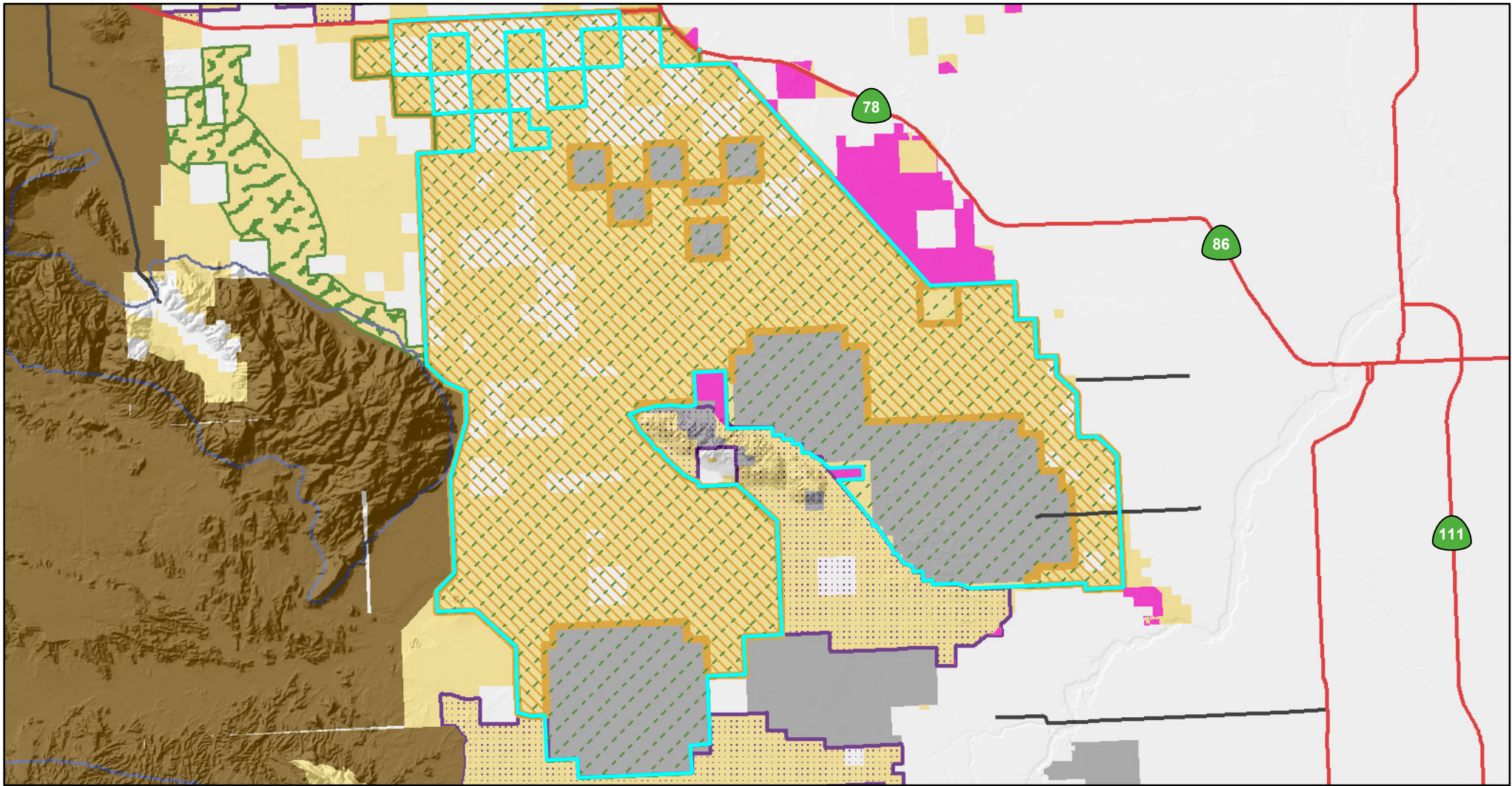
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Draft Map Boundaries Subject to Change

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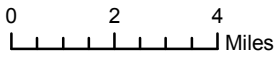




**Conservation Footprint**

-  Legislatively & Legally Protected Areas
-  National Conservation Lands
- ACEC Boundaries**
-  0.1% Disturbance Cap
-  1% Disturbance Cap
-  DRECP Boundary
-  CDCA Boundary
-  OHV Boundary
- Renewable Footprint**
-  Development Focus Areas

- Land Status**
-  Bureau of Land Management
  -  Department of Defense



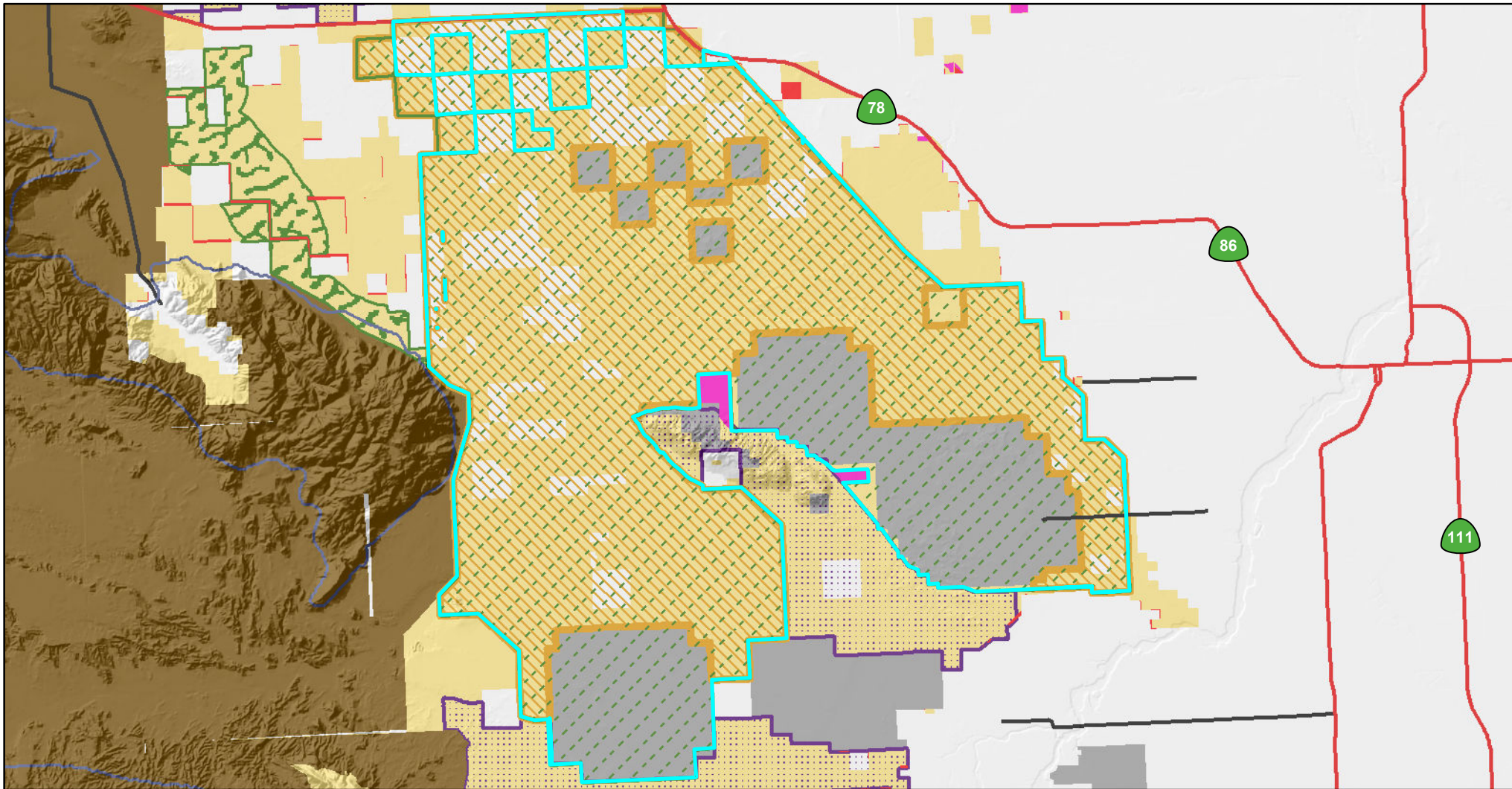
**West Mesa  
Alternative 3**

8/27/2015

Draft Map Boundaries Subject to Change







## Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

## ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

## Renewable Footprint

Development Focus Areas

Variance Lands

## Land Status

Bureau of Land Management

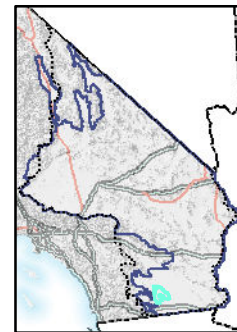
Department of Defense

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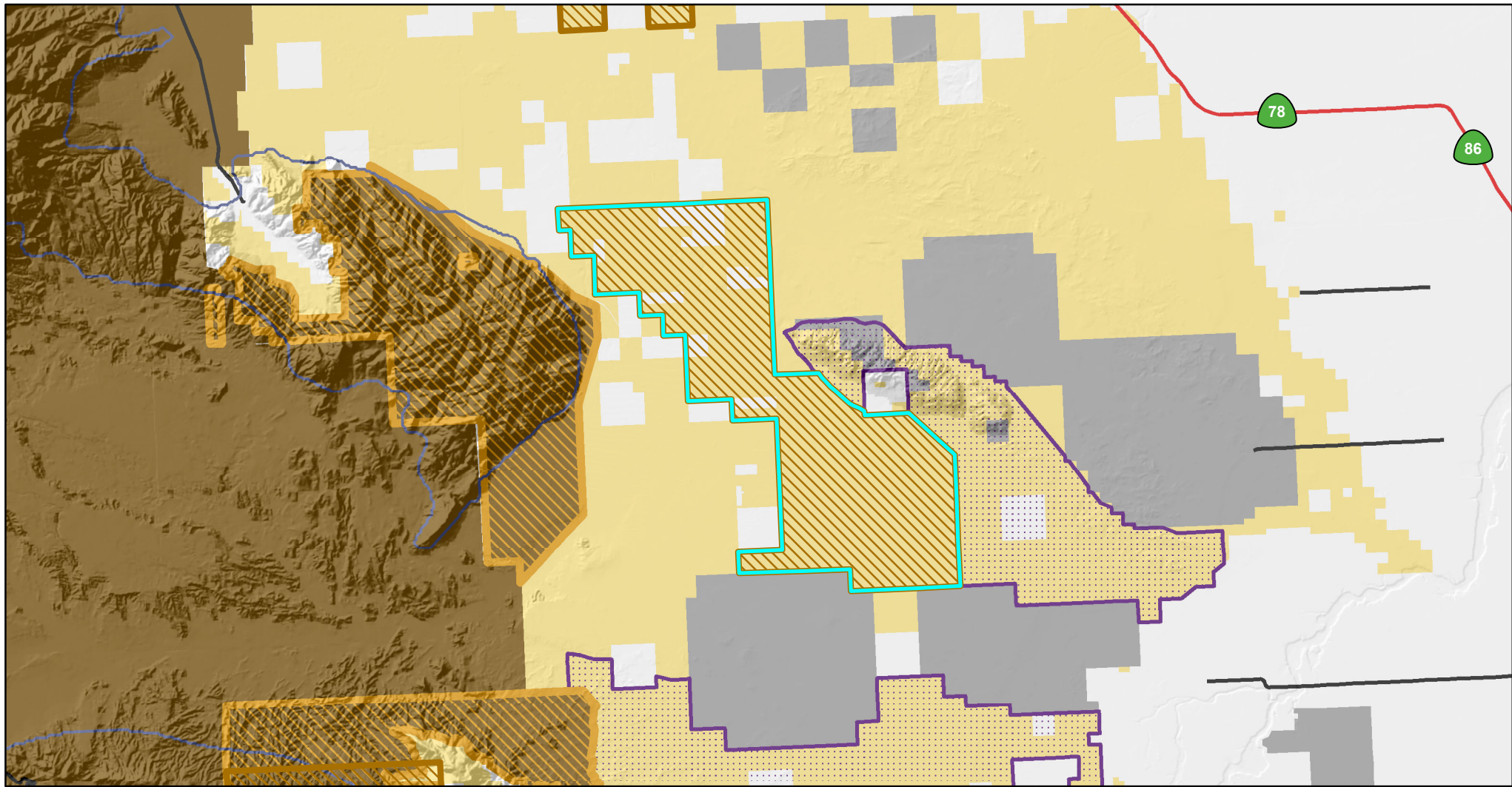
## West Mesa Alternative 4

8/27/2015

Draft Map Boundaries Subject to Change







Conservation Footprint

-  Existing ACEC
-  National Conservation Lands
-  CDCA Boundary
-  OHV Boundary
-  DRECP Boundary
-  Legislatively & Legally Protected Areas

Land Status

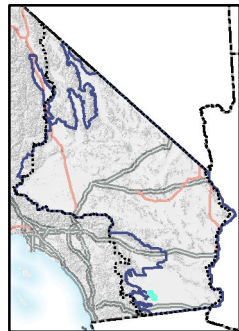
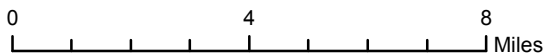
-  Bureau of Land Management
-  Department of Defense

West Mesa

No Action

9/15/2015

Draft Map Boundaries Subject to Change



## Yuha Basin

**National Conservation Lands Ecoregion:** Lake Cahuilla

**Description/Location :** The existing Yuha Basin ACEC is located in southwestern Imperial County approximately 13 miles west of El Centro, bordered by the US-Mexico International Border to the south, the Jacumba Mountains to the west, Interstate 8 to the north, and agricultural lands to the east. The community of Ocotillo lies just west of this ACEC.

### **Nationally Significant Values:**

**Cultural:** National conservation lands and the ACEC contain cultural resources ranging from Paleoindian sites to campsites of ancestors of living Kumeyaay, Quechan, and Cocopah Indians (i.e., intaglios, temporary camps, lithic scatters, cremation loci, pottery loci, wells, trails, and shrines). The shoreline of ancient Lake Cahuilla, which includes habitation sites, is also located in the basin. The area also contains historic sites such as those related to mining, the Old Stage Road, and a historic railroad. The basin includes a portion of the Juan Batista de Anza National Historic Trail and one of the Anza campsites (Yuha Well). The ACEC currently contains the Yuha Basin Discontiguous District that is listed in the National Register of Historic Place (NRHP), and contains additional prehistoric archaeological resources eligible for listing in the NRHP. A Traditional Cultural Property is being proposed within this ACEC. The Southern Immigrant/Butterfield Overland Stage Route passes through the Yuha Basin, and the route is being studied by the NPS for designation as a National Historic Trail.

**Ecological:** The ACEC contains important habitat for the Flat-tailed horned lizard and several unique vegetation communities. Proposed conservation lands would create a contiguous protected landscape linking the Yuha Basin with the Jacumba Wilderness, the proposed Ocotillo Conservation Lands, and Anza-Borrego Desert State Park. These lands would preserve one of the most intact and diverse landscapes in the Sonoran/Colorado Desert.

**Scientific:** Prehistoric archaeological sites with scientific information potential that make them eligible for listing in the NRHP are located within this ACEC. Paleontological localities, including the Oyster Shell Beads and other sensitive fossil localities, such as relatively undisturbed Lake Cahuilla sediments and the Palm Springs Group, are located within the ACEC.

**Special Designations/Management Plan/Date:** ACEC/Yuha Desert Management Plan No. 64/ March 1985

### **Relevance and Importance Criteria:**

The construction of transmission lines, the Imperial Valley Substation, and other undertakings has opened up much of the interior of the Yuha Basin. The 1985 Yuha Desert Management Plan emphasized the need to protect archaeological and wilderness values that were deteriorating in the Yuha Basin as a result of project development and improved access from such projects. The ACEC contains and is within proximity to landforms that contain important visual and spiritual significance to local Indian tribes.

The Yuha Basin ACEC contains unique vegetation communities, which include the Crucifixion Thorn Natural Area. The Mt. Signal Research Natural Area is also located within this ACEC. Major washes, such as Pinto Wash, resulting from mountain runoff of flash flooding from monsoons support important plant communities and wildlife habitats. Mesquite dunes or hummocks are common throughout the ACEC and also provide a unique environment that supports a number of plant communities and wildlife species. Vegetation communities highly adapted to the hyper-arid environment of the Yuha Desert include creosote (*Larrea tridentate*), Saltbush (*Atriplex*), and mesquite (*Prosopis glandulosa*), which support a diversity of



wildlife species. Sensitive plant species within the ACEC include cholla cactus (*Opuntia wigginsii*) and milkvetch (*Astragalus crotalatae*). The ACEC is also home to a number of sensitive wildlife species, including the magic gecko, the loggerhead shrike (*Lanius ludovicianus*), and game species such as Gambel's quail (*Callipepla gambelii*) and coyote (*Canis latrans*).

Common recreational activities within the ACEC include OHV riding, hunting, hiking, rock and mineral collecting, and camping; as well as site-seeing in areas of interest such as at the Yuha Well, Yuha Shell Beds, and the Crucifixion Thorn Natural Area. The potential for locatable mineral development within the ACEC is very low except for in the extreme southwest corner where several mining claims exist. Sand and gravel is the only in-demand mineral commodity within the ACEC. The Yuha Basin ACEC contains deposits of material suitable for use as tailing sand, road base aggregate and concrete aggregate.

**Proposed Expansion:**

Conservation lands and the ACEC are proposed to expand northward to the Even Hewes Highway (Old 80) to protect significant cultural resources and flat-tiled horn lizard habitat.

**National Historic and Scenic Trails:** This unit overlaps a portion of the Juan Bautista de Anza National Historic Trail.

**Overarching Goals:**

Protect cultural and ecological, and recreational values while providing for other compatible uses. Where the CMAs in this Special Management Plan conflict from the CMAs included in Volume II of the Proposed LUPA and Final EIS, the more restrictive CMA would be applied (i.e. management that best supports resource conservation and limits impacts to the values for which the conservation unit was designated), unless otherwise specified.

If this area is included in the National Conservation Lands, the BLM will manage this area to protect the Nationally Significant Values above. Appropriate multiple uses will be allowed, consistent with this Special Unit Management Plan and the CMAs in Volume II. If an activity is not specifically covered by the CMAs, it will be allowed if it is consistent with the Nationally Significant Values, but prohibited if the uses conflict with those values.

| Designation and Acreage by Alternative:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                       |                                      |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|--------------------------------------|----------------------|
| Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BLM Acres of NLCS within ACEC or Wildlife Allocation | BLM Acres within ACEC | BLM Acres within Wildlife Allocation | ACEC Disturbance Cap |
| No Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                    | 68,300                | 0                                    | 1%                   |
| Preferred Alternative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 73,522                                               | 77,302                | 0                                    | 1%                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                    | 74,900                | 0                                    | 1%                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 75,400                                               | 75,400                | 0                                    | 1%                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 71,000                                               | 74,900                | 0                                    | 1%                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 46,300                                               | 74,900                | 0                                    | 1%                   |
| * Acreage values are for BLM managed lands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                       |                                      |                      |
| Objectives (desired future condition)/Allowable Uses/Management Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                       | Resource                             |                      |
| Objective: Protect air quality and visibility standards in accordance with the Southeast Desert Air Basin nonattainment.<br><br>Management Action: Coordinate with the California Environmental Protection Agency Air Resources Board.<br><br>Objective: Manage the ACEC with the standards, visibility-reducing particles, and attainment for other criteria in accordance with the standards set by the Imperial County Air Pollution Control District.<br><br>Management Action: Coordinate with the Imperial County Air Pollution Control District.                                                                                                                                                                                                                                                                                   |                                                      |                       | Soil, water, air                     |                      |
| Objective: Protect and enhance habitat for Emory’s Crucifixion Thorn woodland<br>Management Action: Withdraw the Crucifixion Thorn Natural Area from mineral entry.<br><br>Objective: Protect desert wetland plant communities at seeps and springs; and Sonoran Desert wash woodland.<br>Management Action: Arrange with partner agencies and developers or ROW applicants to inventory flora of the ACEC after a significant rainfall.<br><br>Objective: Maintain habitat that potentially supports the presence of Special Status plant species.<br>Management Action: Control the introduction of invasive plant species.<br><br>Objective: Determine the effects of pesticide spraying on the Special Status plant species.<br>Management Action: Conduct study to assess effects of pesticides on the Special Status plant species. |                                                      |                       |                                      |                      |

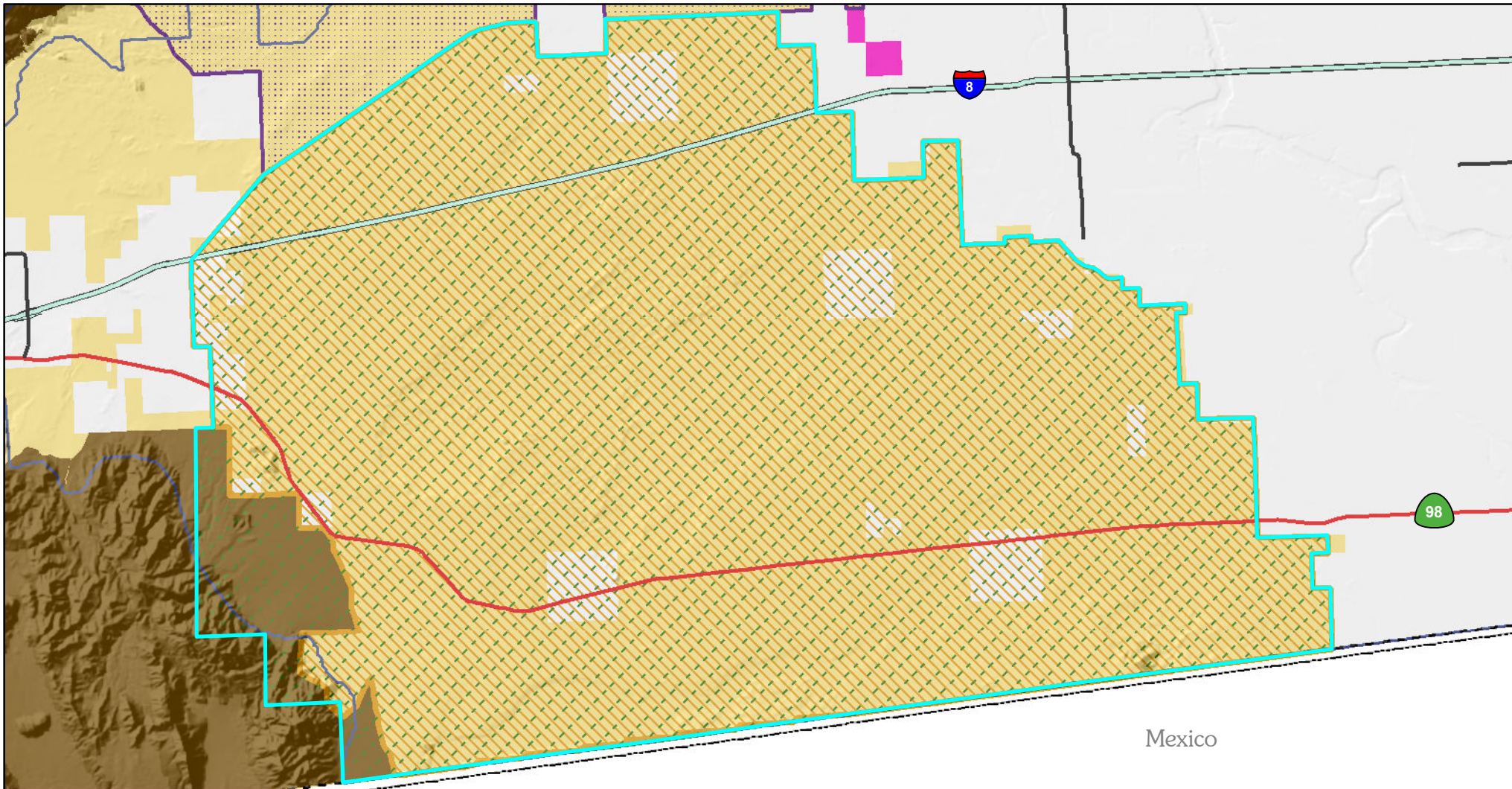


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <p>Objective: Control noxious or poisonous plants, improve habitat, and eliminate introduced plant species, such as tamarisk, from riparian areas.<br/>Management Action: Develop strategies, such as vegetation manipulation.</p> <p>Objective: Protect and enhance robust populations of both rare and common native plants.<br/>Management Action: Manage vehicular traffic to stay on designated OHV routes.<br/>Management Action: Place signs, kiosks and interpretive information at key recreational sites to better inform the public about the important plant resources.</p> <p>Objective: Update a baseline of plant species to track environmental changes.<br/>Management Action: Inventory vascular and non-vascular plants, include soil crust species, in the ACEC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |
| <p>Objective: Maintain wildlife habitat that supports native species including that of special status species.<br/>Management Action: Monitor wildlife for habitat and population change.</p> <p>Objective: Manage habitat for the Flat-tailed horned lizard (<i>Phrynosoma mcallii</i>) according to the 2003 Flat-tailed <i>Horned Lizard Rangeland Management Strategy</i>.<br/>Management Action: Maintain the 1% cap for ground disturbance for this ACEC.</p> <p>Objective: Rehabilitate and improve habitat quality for burrowing owl (<i>Athene cunicularia</i>) and American badger (<i>Taxidea americana</i>)<br/>Management Action:</p> <p>Objective: Protect and enhance habitat for desert bird species such as Le Conte's thrasher (<i>Toxostoma lecontei</i>).<br/>Management Action: Inventory the ACEC for invertebrate species to determine the prevalence of species endemic to the hyperarid conditions.<br/>Management Action: Enhance shrub vegetation damaged from unauthorized OHV traffic.</p> <p>Objective: Determine the effects of pesticide spraying on the Flat-tailed horned lizard.<br/>Management Action: Conduct study to assess effects of pesticides on the Flat-tailed horned lizard.</p> | Fish and Wildlife (incl. special status species) |
| <p>See programmatic ACEC cultural resources objective and action items in general cultural resources rules.</p> <p>Objective: Protect and preserve cultural resources within and visible from the ACEC.<br/>Management Action: Develop interpretive programs and brochures that explain Lake Cahuilla cultural resources.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cultural Resources                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <p>Management Action: Manage vehicular traffic to stay on designated OHV Routes.</p> <p>Management Action: Perform route restoration to erase illegal routes.</p> <p>Management Action: South of Interstate 8 camping is limited to designated campgrounds only.</p> <p>Management Action: Increase patrols and BLM presence in the area.</p> <p>Management Action: Nominate the Lake Cahuilla district to the NRHP.</p> <p>Management Action: Install informative signage and kiosks to ensure the public is aware of restrictions as well as provide interpretation about the ancient lake.</p> <p>Objective: Expand our understanding of the nature, variety, and complexity of cultural resources within the Lake Cahuilla ACEC.</p> <p>Management Action: Consult with local Indian tribes and knowledgeable traditional practitioners regarding the cultural resource values present within the ACEC.</p> <p>Management Action: Work with local archaeological organizations and institutions to develop partnerships to enable proactive survey and recordation.</p> <p>Management Action: Apply for grant or other funding to pay for contracting.</p> |                  |
| <p>Objective: Promote cultural history of the ACEC.</p> <p>Management Action: Coordinate with NPS on the management of the Juan Bautista de Anza NHT</p> <p>Management Action: Implement the Juan Bautista de Anza NHT Management Plan.</p> <p>Management Action: Comply with the NHT rule set.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | National Trails  |
| <p>Objective: Provide for maximum protection of significant paleontological resources.</p> <p>Management Action: Designate protection areas for significant paleontological localities.</p> <p>Management Action: Prohibit casual collection of vertebrate fossils without a permit.</p> <p>Management Action: Increase patrols in areas with highly sensitive fossils that are located near areas with highest public visitation, such as along hiking and OHV trails, and campsites.</p> <p>Objective: Increase public awareness of the paleontological values in ACEC.</p> <p>Management Action: Install informative signage and kiosks to ensure the public is aware of restrictions as well as provide general education about the unique and important resources</p> <p>Management Action: Promote organized hikes and site-seeing events to non-sensitive paleontological resource areas.</p> <p>Management Action: Develop interpretive programs and brochures that explain Lake Cahuilla paleontology.</p>                                                                                                                                            | Paleontology     |
| <p>Objective: Protect the characteristic landscapes of the Yuha Basin, including the cultural/historic landscape crossed by the Anza NHT and proposed Butterfield Overland Trail.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Visual Resources |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Management Actions: Minimize and mitigate visual impacts through prescriptions of applicable VRM class.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| <p>Objective: To maintain trails and routes of travel to ensure the protection of cultural, ecological, and recreational values.</p> <p>Management Action: Mark the margins of BLM-designated OHV trails.</p> <p>Management Action: Provide signage and maps to the public to inform them of route locations and regulations.</p> <p>Management Action: Increase compliance with protection of sensitive resource areas.</p> <p>Management Action: Perform route restoration to erase illegal routes</p> <p>Allocation: OHV limited (designated routes and vehicle type) as per the WECO plan.</p>                             | Trails and Travel Management                                   |
| <p>Objective: Reverse trend of resource degradation due to OHV and casual ORV use.</p> <p>Management Action: Prohibit competitive motorized vehicle recreation events within the ACEC.</p> <p>Action: Increase compliance with protection of sensitive resource areas.</p> <p>Objective: Promote dispersed recreation within the ACEC, including sight-seeing, camping, hunting, target shooting, hiking, and 4x4 touring.</p> <p>Management Action: Promote organized non-vehicular events (e.g., hiking and site-seeing tours)</p> <p>Allocation: OHV limited (designated routes and vehicle type) as per the WECO plan.</p> | Recreation                                                     |
| <p>Objective: Protect resource values of the ACEC</p> <p>Management Action: Land use authorization proposals (new, renewal, and amendment) will be analyzed on a case-by-case basis to assess whether they are compatible with the ACEC and its management goals.</p> <p>Management Action: Limit energy transmission line ROWs to designated utility corridors.</p>                                                                                                                                                                                                                                                           | Rights of Way                                                  |
| <p>Objective: Consolidate through tenure adjustment.</p> <p>Management Action: Acquire inholdings, edgeholdings and other interests from willing sellers.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Land Tenure                                                    |
| <p>Objective: Minimize impacts resulting from geothermal energy development within the ACEC.</p> <p>Management Action: Review lease applications on case-by-case basis.</p> <p>Management Action: Prohibit solar and wind energy projects within the ACEC.</p> <p>Management Action: Prohibit additional energy transmission corridors inside the ACEC.</p> <p>Management Action: Encourage transmission lines to share infrastructure, reduce redundant poles and access roads in the transmission corridor.</p>                                                                                                              | Renewable Energy                                               |
| <p>Objective: Develop management guidelines for material sales.</p> <p>Management Action: Develop Sand and Gravel Activity Management Plan.</p> <p>Management Action: Permit geothermal leasing with stipulations as per Yuha Basin Proposed Geothermal Leasing Environmental Assessment.</p>                                                                                                                                                                                                                                                                                                                                  | Locatable Minerals<br>Mineral Materials<br>Non-Energy Leasable |



### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

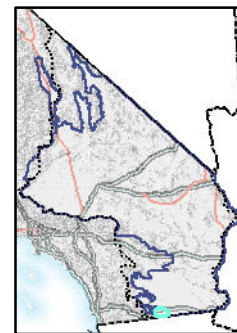
Bureau of Land Management

## Yuha Basin

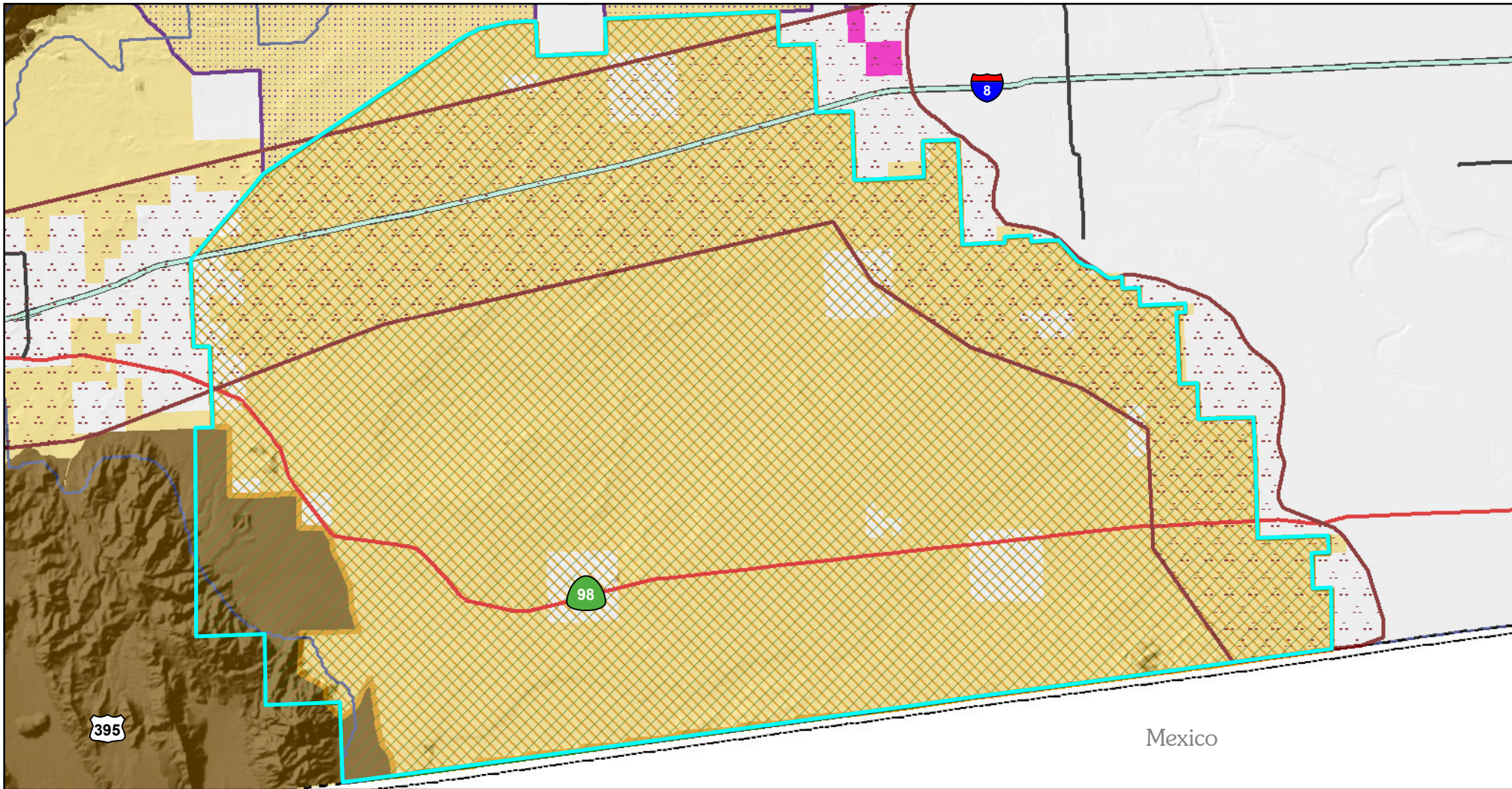
6/24/2015

Draft Map Boundaries Subject to Change

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### Conservation Footprint

- Legislatively & Legally Protected Areas
- National Conservation Lands
- Proposed ACEC

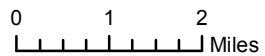
- DRECP Boundary
- CDCA Boundary
- Transmission Corridor
- OHV Boundary

### Renewable Footprint

- Development Focus Areas

### Land Status

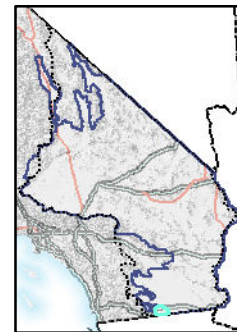
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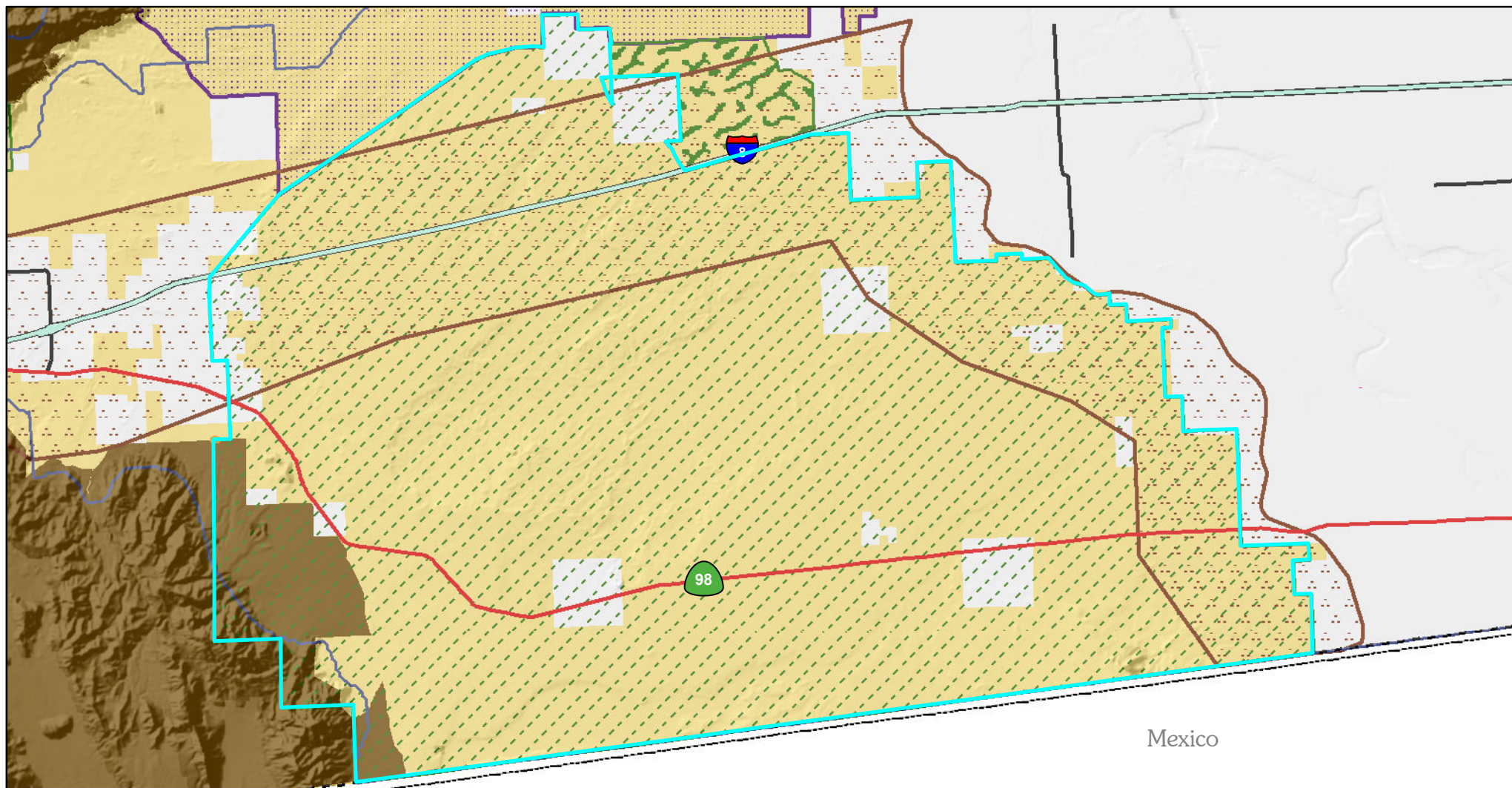
## Yuha Basin

7/14/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

-  Legislatively & Legally Protected Areas
-  National Conservation Lands

### ACEC Boundaries

-  0.1% Disturbance Cap
-  1% Disturbance Cap

-  DRECP Boundary
-  CDCA Boundary
-  Transmission Corridor
-  OHV Boundary

### Renewable Footprint

-  Development Focus Areas

### Land Status

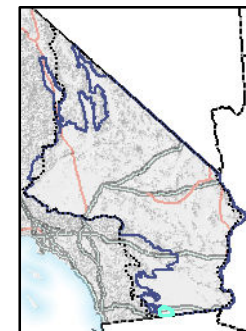
-  Bureau of Land Management

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Miles

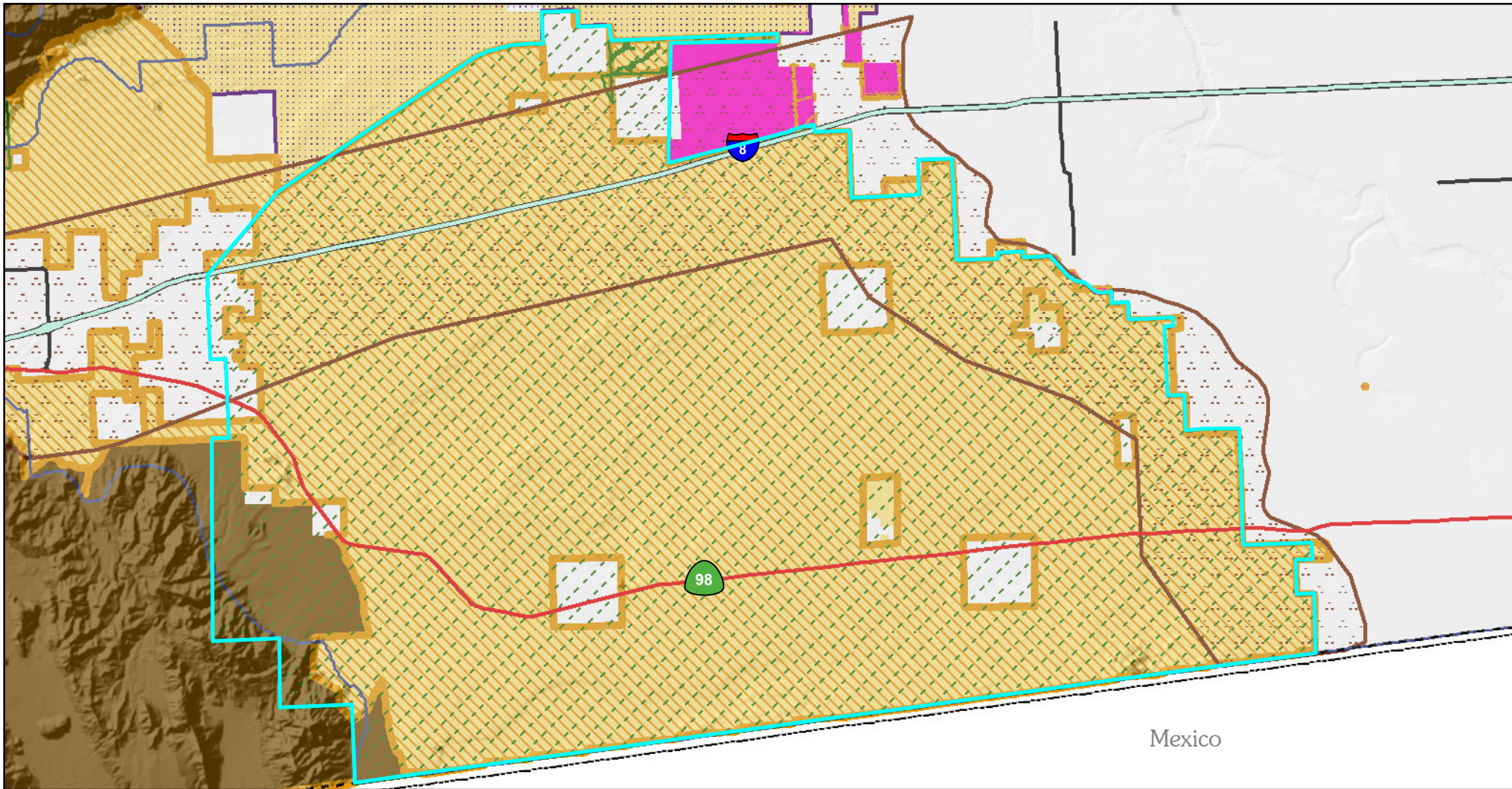
## Yuha Basin Alternative 1

8/25/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

Bureau of Land Management

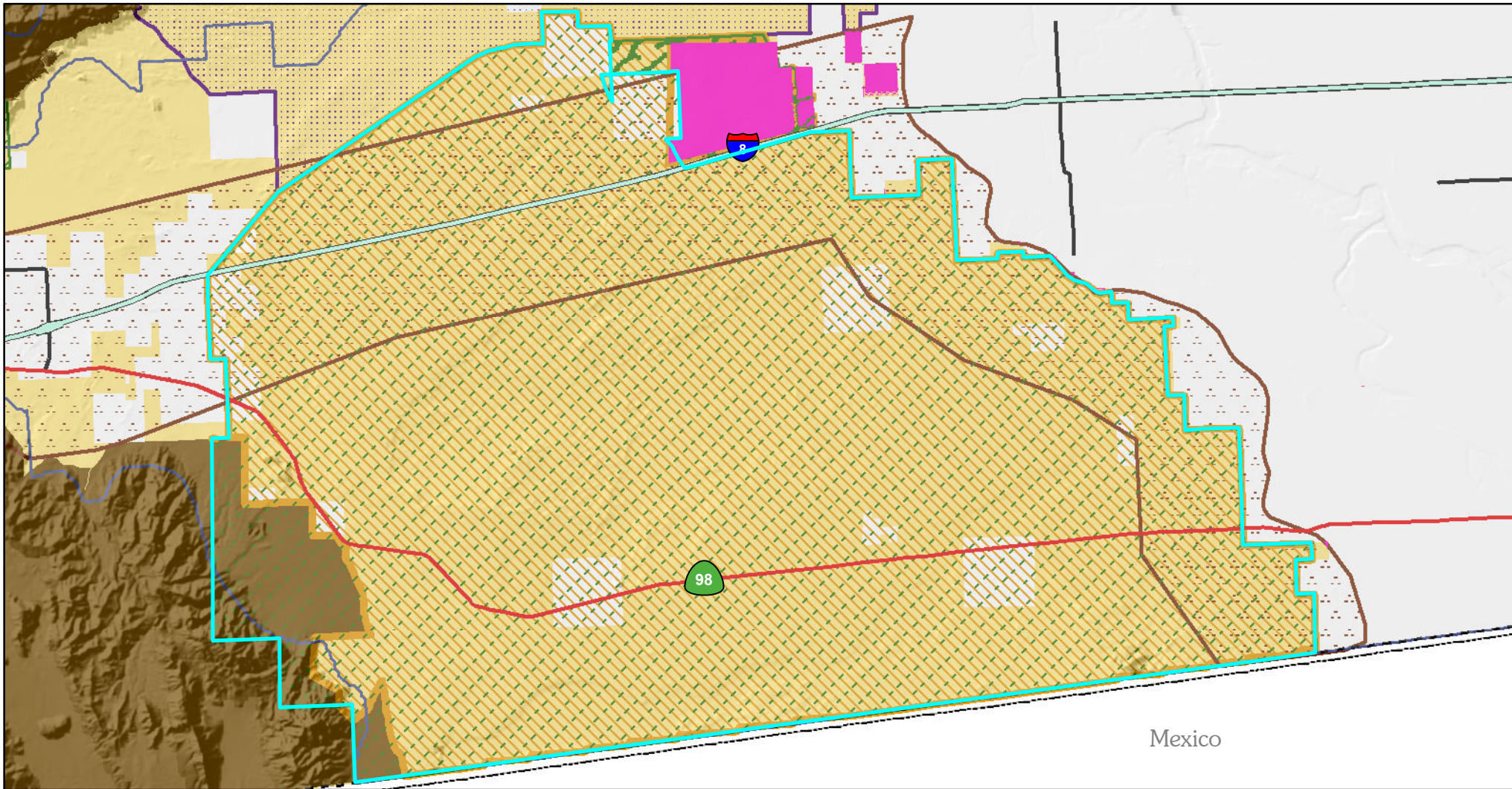
## Yuha Basin Alternative 2

8/26/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

Transmission Corridor

OHV Boundary

### Renewable Footprint

Development Focus Areas

### Land Status

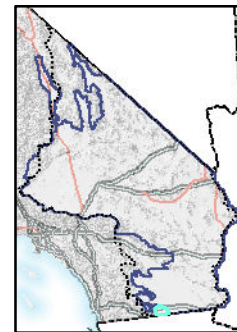
Bureau of Land Management

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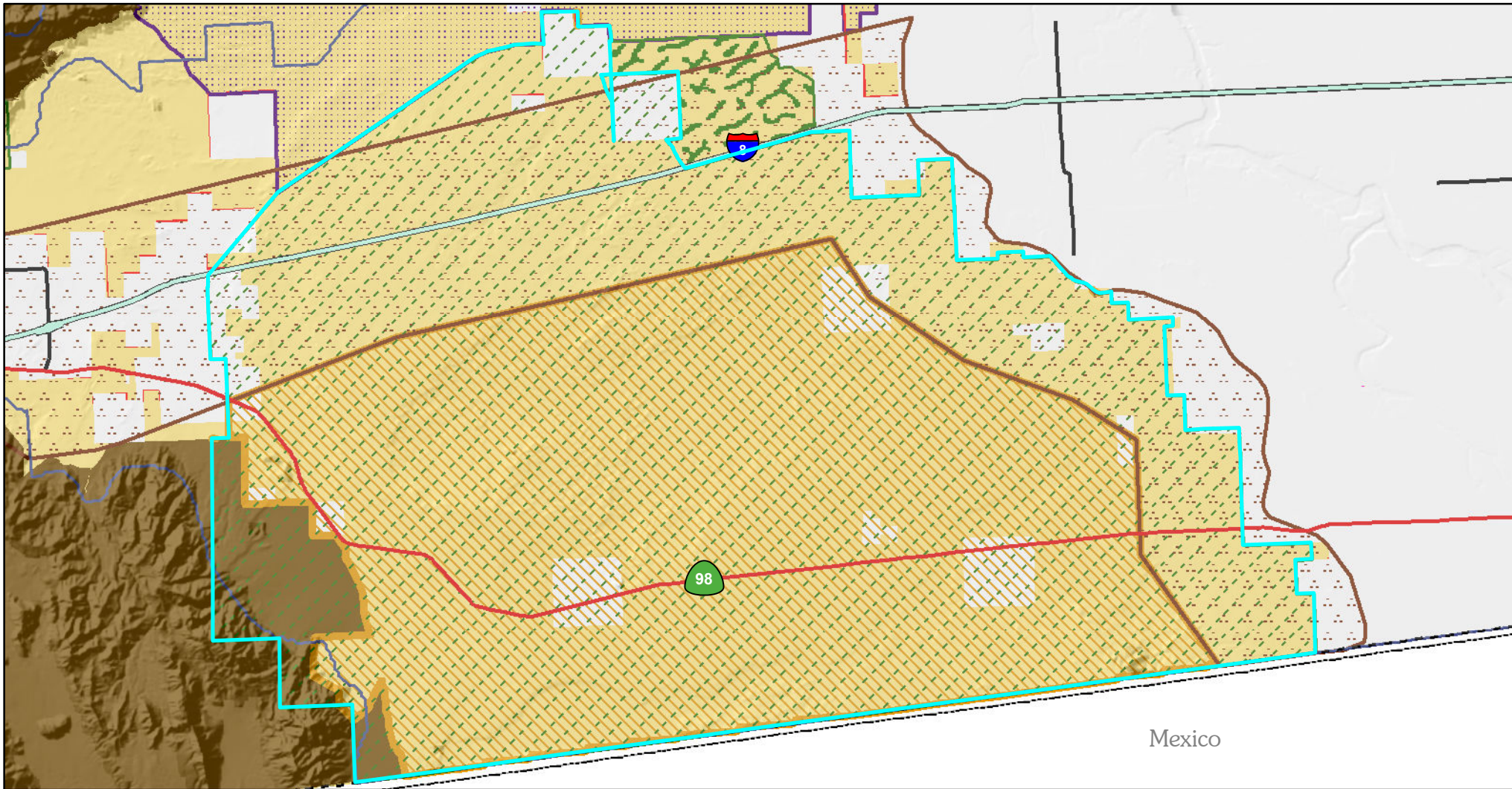
## Yuha Basin Alternative 3

8/27/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

Legislatively & Legally Protected Areas

National Conservation Lands

### ACEC Boundaries

0.1% Disturbance Cap

1% Disturbance Cap

DRECP Boundary

CDCA Boundary

OHV Boundary

Transmission Corridor

### Renewable Footprint

Development Focus Areas

Variance Lands

### Land Status

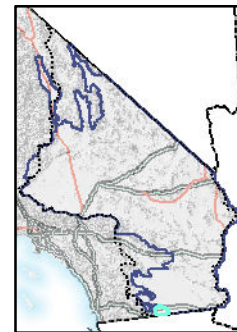
Bureau of Land Management

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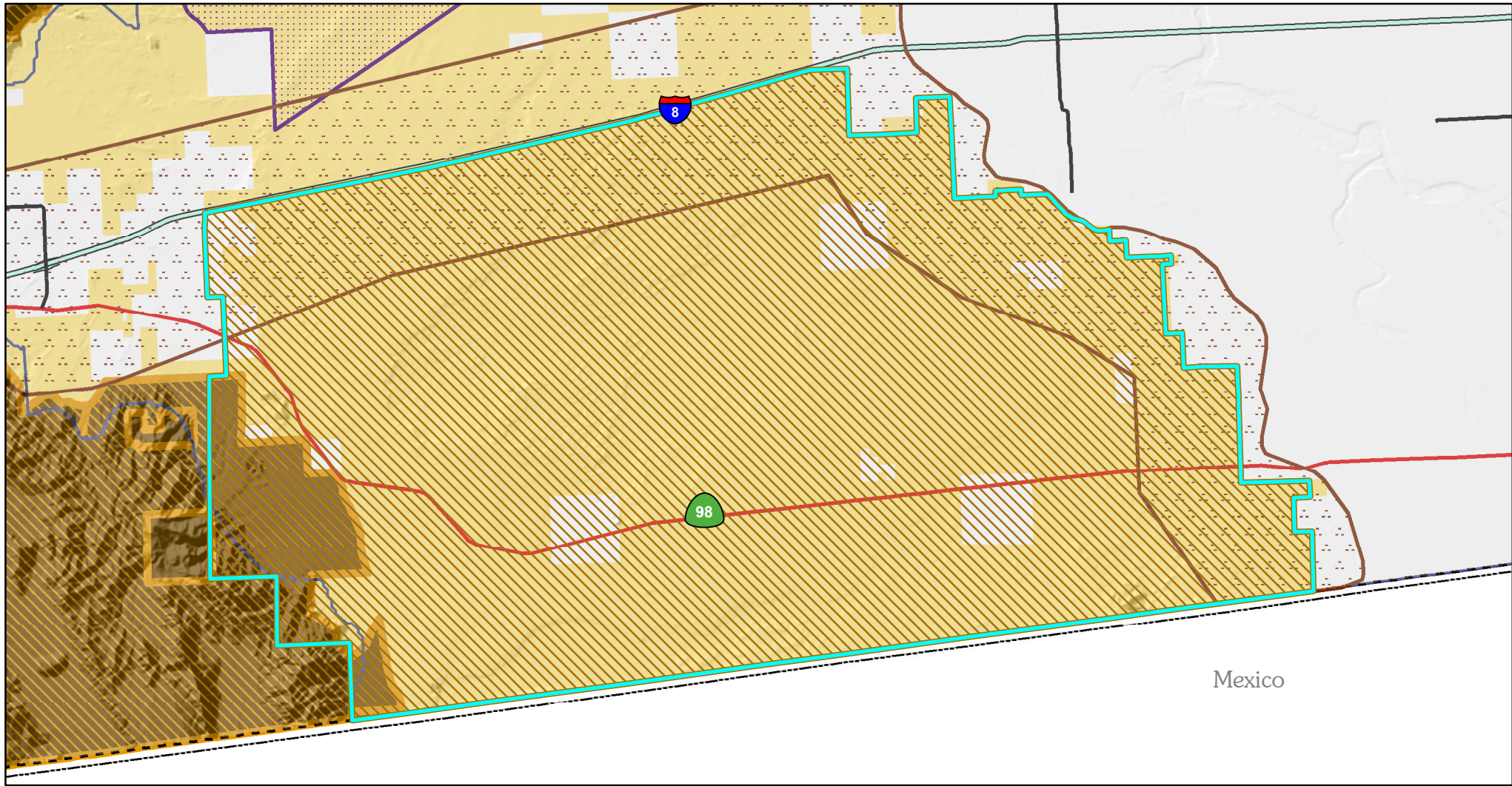
## Yuha Basin Alternative 4

8/27/2015

Draft Map Boundaries Subject to Change







### Conservation Footprint

- |                       |                                         |
|-----------------------|-----------------------------------------|
| Existing ACEC         | National Conservation Lands             |
| Transmission Corridor | OHV Boundary                            |
| CDCA Boundary         | Legislatively & Legally Protected Areas |
| DRECP Boundary        |                                         |

- Land Status**
- Bureau of Land Management

### Yuha Basin

### No Action

9/15/2015

Draft Map Boundaries Subject to Change

