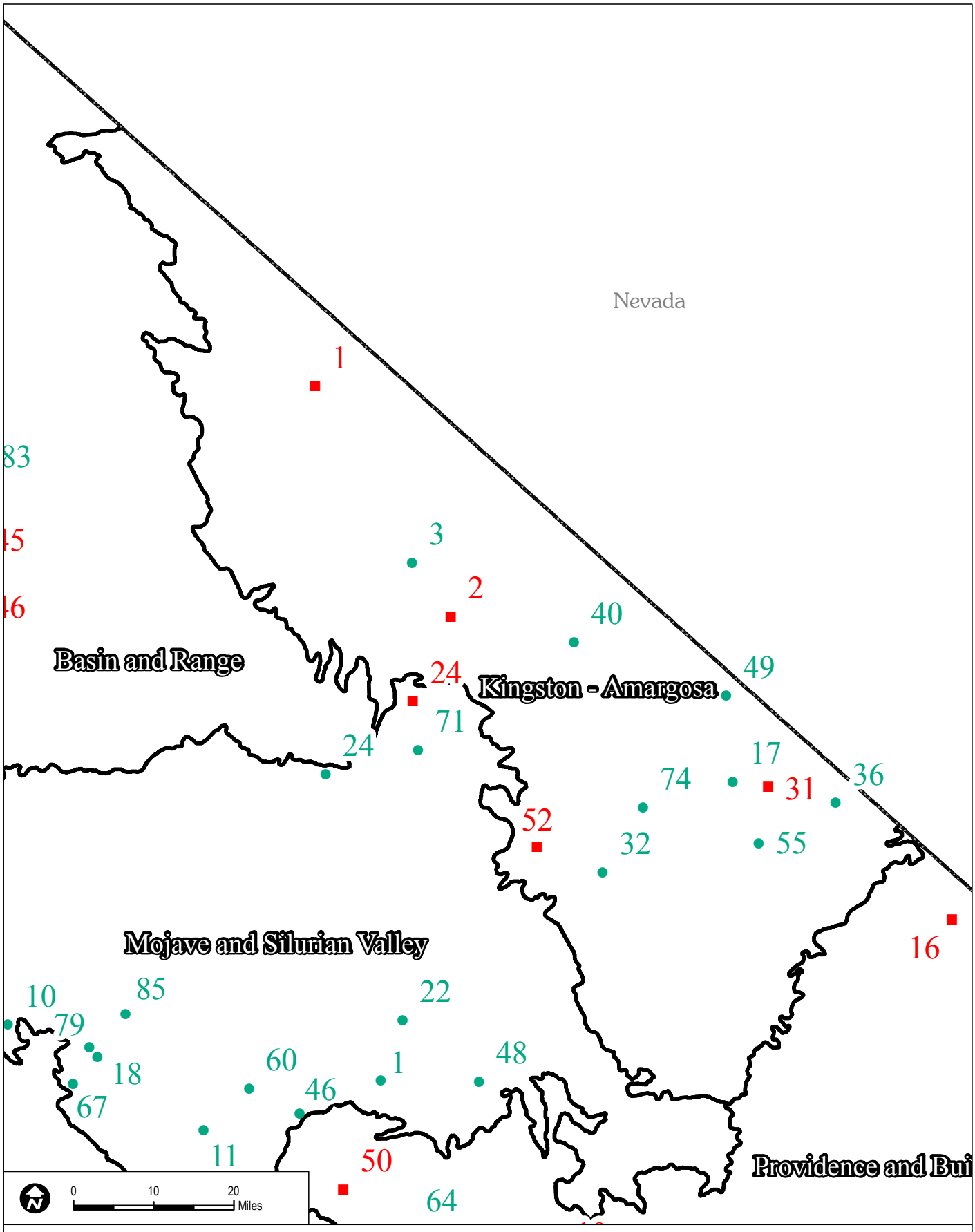

Nevada
Basin and Range
Kingston - Amargosa
Mojave and Silurian Valley
Providence and Bui
1
2
3
16
24
31
36
50
52
83
45
46
40
49
71
24
17
74
32
55
10
85
22
79
18
60
1
48
67
46
11
64
0
10
20
Miles
Existing
Proposed
DRECPSubareas
Kingston - Amargosa
Desert Renewable Energy Conservation Plan (DRECP)

ACECs within the Kingston-Amargosa Subarea

#	**Proposed ACECs**
1	Amargosa North
2	Amargosa South
31	Ivanpah Expansion (covered in the Ivanpah, see below)
52	Shadow Valley Expansion (covered in the Shadow Valley, see below)

#	**Existing ACECs (within DRECP boundary)**
3	Amargosa River (covered in Amargosa North and South , see above)
17	Clark Mountain
32	Halloran Wash
36	Ivanpah
40	Kingston Range
49	Mesquite Lake
55	Mountain Pass Dinosaur Trackway
74	Shadow Valley

Amargosa North (incl. part Amargosa River)

Description/Location: Located between Funeral Mountain Wilderness, Resting Spring Range Wilderness, Death Valley National Park, and Nevada Stateline. Encompasses all of Amargosa Desert. This designation incorporates and subsumes part of the existing Amargosa River unit and expands the area of concern.

Nationally Significant Values:
Ecological: The Amargosa River North unit expansion is marked by permanent flowing water and wetlands in one of the driest desert areas on the continent, and includes a broad range of habitat types, serving as a magnet for a diversity of plant and wildlife species, including many special status species. The area also provides habitat for several narrowly endemic species, some of which may not have been described yet by scientists. Public lands within this unit provide critical habitat connections between a number of designated BLM wilderness areas.

Cultural: This unit includes some of the most intact viewsheds in the California Desert which protects the historical integrity of tribally significant landscapes.

Scientific: A long-term population study of the Amargosa niterwort has been taking place in this unit along with extensive long-term hydrological studies.

Special Designations/Management Plan/Date: portions designated in 1984, Amargosa River Unit Plan in preparation, expansion is newly proposed.

Relevance and Importance Criteria: Relevant biological resources including wildlife and plant assemblages. The area is critical for bighorn sheep and bighorn sheep connectivity, has a unique plant assemblage of mesquite bosque, and the area has regionally significant populations of several sensitive plants and important habitat wildlife, wildlife connectivity, and some rare insects. The area is important for desert tortoise and maintaining connection across tortoise populations. While the Amargosa Wild and Scenic River designation does not overlap this expanded, proposed ACEC unit, the ground water under this region is thought to contribute to the Amargosa Wild and Scenic River (AWSR).The unit contains designated critical habitat for the Amargosa niterwort, the Ash Meadows gumplant, and encompasses many populations of BLM sensitive plants.

Amargosa River Unit
Relevant riparian, wildlife and cultural values. Permanent flowing water and associated wetlands in the Amargosa River Unit provide food, cover and nesting space to a great variety of birds. Many fish, mammals, insects and mollusks present in the natural area have very limited distribution, are endemic, or have low population number. This water has also attracted humans for the last several thousand years, and the canyon and surrounding areas offer opportunities for non-intensive recreation.

Goals: Protect ground water and biological values, including habitat quality, populations of sensitive species, and landscape connectivity while providing for compatible public uses.

Amargosa River Unit
Protect the area's sensitive and rare wildlife, riparian and cultural resources, while still providing for non-intensive recreation. To provide specific administrative guidance for a variety of natural resources present along a small portion of the Amargosa River drainage.

For NLCS Lands: Where this ruleset differs from the plan-wide NLCS rulsets, the more restrictive rules will apply.

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	7,100	0	NA
Preferred Alternative	117,000	117,300	0	1%
1	30,800	117,300	0	1%
2	117,300	117,300	0	1%
3	117,000	117,300	0	1%
4	117,100	117,300	0	1%

*** Acreage values are for BLM managed lands, rounded to nearest 100 acres**

Alternatives:
All Action Alternatives – The unit will be managed as it has been, but the boundary would be expanded.

No Action - Under the no action alternative, the unit would be managed as it has been and there would be no expansion.

Objectives (desired future conditions)/Allowable Uses/Management Actions	**Resource**
Objective: Retain existing flow regime and volume Management Action 1: Secure Federal Reserve Water Right Management Action 2: Ensure groundwater withdrawals do not harm AWSR, Amargosa vole critical habitat further downstream, or Amargosa niterwort critical habitat Objective: Conserve and Protect Water Resources Essential to Maintenance of Other Valued Resources and Habitats Management Action1: Prohibit new non-administrative, discretionary stream diversions and groundwater-disturbing activities on public lands within the unit Management Action 2: File for appropriated water rights to conserve existing water sources that support the unit's resources and values Management Action 3: Monitor surface water quality at pre-selected locations to gauge condition and trend Management Action 4: Identify, map, and monitor groundwater sources and springs within the unit Management Action 5: Monitor water uses from new BLM land use authorizations within the California portion of the Amargosa watershed Objective: Conserve soils and soil properties in the unit Management Action: Conduct an Order III soil survey for the unit that will	Soil, water, air

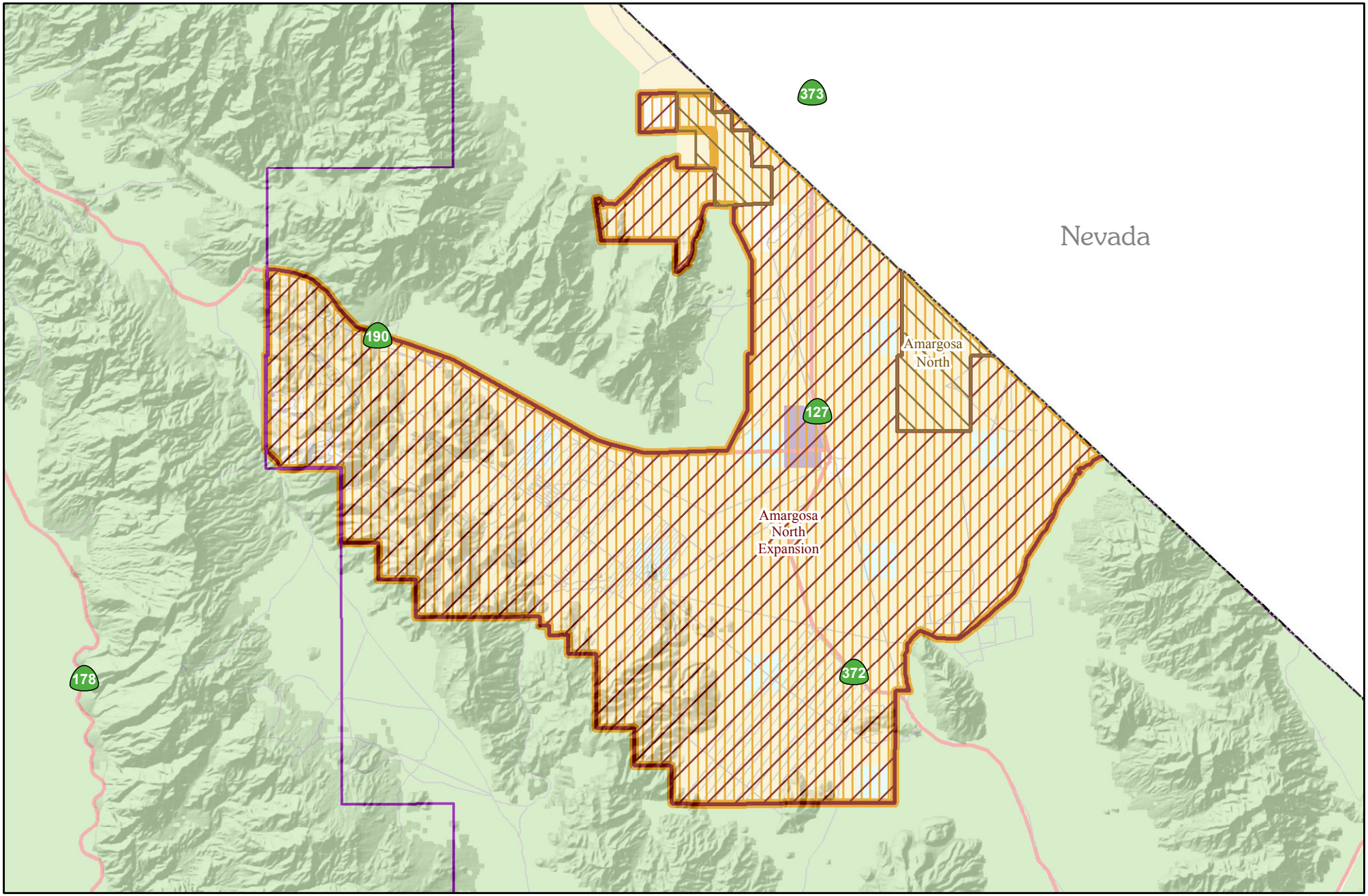
include a series or association level vegetation map for the unit. Amargosa Canyon Unit Objective: Manage Amargosa River drainage to ensure stability of natural resources dependent upon continued water flow Management Action: Develop projects to prevent degradation of hydrologic resources	
Objective: Maintain or Improve condition of vegetation Management Action 1: Remove invasive plants, rehabilitate/revegetated disturbed areas Management Action 2: Protect populations of special status plants Amargosa niterwort (*Nitrophila mohavensis*) Ash Meadows Gumplant (*Grindelia fraxino-pratensis*) Tecopa bird's-beak (*Chloropyron tecopense*) robust Hoffmann's buckwheat (*Eriogonum hoffmannii* var. *robustus*) Death Valley sandpaper-plant (*Petalonyx thurberi* ssp. *gilmanii*) Management Action 3: Protect Unusual Plant Assemblages: Mesque bosque and salt and brackish water marshes Objective: Monitor the condition of vegetation to inform adaptive management of vegetation in the unit Management Action 1: Conduct multi-year surveys to establish a vegetation baseline in the unit, including populations of listed and sensitive plant species Management Action 2: Monitor changes in vegetation over time, once a baseline is established Management Action 3: Monitor suitable listed and sensitive plant habitat Management Action4: Track population trends Management Action 5: Identify additional recovery needs Management Action 6: Identify thresholds for substantial change that would trigger the reevaluation of conservation strategies Objective: Reduce non-native riparian plants along the Amargosa River, especially tamarisk Management Action 1: Implement the Barstow Field Office's ten-year weed control plan for tamarisk (*Tamarix* spp.) in upstream portions of the unit first and including public, state, and private lands, as feasible Management Action 2: Implement, as needed, a controlled burn program to enhance weed control projects and/or to eliminate refuse from mechanical removal Management Action 3: Restore riparian zones as needed by reintroducing native riparian plant species in areas of weed control and other priority damaged areas Management Action 4: Design projects to enhance nesting habitat of listed and candidate bird species based on local bird surveys, literature review of microhabitat requirements, and advice from avian ecologists Management Action 5: Prohibit non-restoration related fires on public lands within the unit	Vegetation – Including special status species

Objective: Protect populations and habitats of listed and rare plant species Management Action 1: Maintain existing protective fences Management Action 2: Fence and restore closed vehicle routes Management Action 3: Put in place signs identifying known populations that people or other disturbances are impacting Management Action 4: Protect all populations and habitat for listed plants Amargosa River Unit Objective: Maintain or improve condition of vegetation Management Action: Protect populations of special status plants CNPS listed species/ special status species: - *Cordylanthus tecopensis* - *Centarium namophilum* - *Calochortus striatus* - *Nitrophila mojavensis* - *Grindelia fraxino-pratensis* Objective: Improve riparian habitat Management Action: Remove tamarisk in the unit and allow for native plant growth	
Objective: Maintain or improve condition of wildlife habitat Management Action : Protect populations of special status animals Desert Bighorn Sheep Menke's cuckoo wasp (*Ceratochrysis menkei*) Death Valley agabus diving beetle (*Agabus rumppi*) Desert tortoise Golden eagle Objective: Protect threatened and endangered (listed) species and their habitat by preventing irreparable damage Management Action 1: Reduce the numbers of exotic fauna in habitats of listed species habitats including: house mouse (*Mus musculus*); free-roaming and/or feral domestic cats; brown-headed cowbirds; and other species as identified Management Action 2: Monitor and evaluate habitat trends and conditions specific to listed species on public lands throughout the unit Management Action 3: Work with private landowners, the State, and other federal agencies to identify listed species habitat and habitat trends throughout the unit Management Action 4: Inventory invertebrate populations and assemblages in the unit Amargosa river unit Objective: Maintain or improve condition of wildlife habitat Management Action 1: Remove invasive invasive plants, rehabilitate/revegetated disturbed areas Management Action 2: Protect populations of special status animals Least Bell's Vireo, Amargosa vole, Yellow-billed cuckoo, Amargosa River Pupfish, Speckled Dace	Fish and Wildlife – Including special status species

Objective: Limit Motorized vehicle impacts Management Action: All legal open routes will be signed, all routes identified as closed will be rehabilitated/restored, restore all undesignated OHV routes. Objective: Control vehicle access to Amargosa River Unit OHV limited to designated routes outside of Amargosa Unit Management Action: Post signs to block access	Trails and Travel Management
Objective: Provide recreation opportunities that are consistent with resource protection Management Action 1: Monitor amount of visitor use of the unit trail system and watchable wildlife areas with visitor registers, periodic visitor counts, traffic counters, and other methods Management Action 2: Eliminate bathing at hot springs in the unit Management Action 3: Prohibit the discharge of firearms on public lands within the unit except for shotguns used in legal hunting Management Action 4: No camping in critical habitat of ESA-listed species Management Action 5: No camping along the Amargosa River Management Action 6: Restrict camping away from sensitive habitat areas Objective: Provide dispersed opportunities for enjoyment of the unit attributes Management Action 1: Develop a trail plan Management Action 2: Develop an interpretive plan Management Action 3: Restricted vehicle camping to within 100ft of designated open roads Objective: provide dispersed opportunities focuses on enjoyment of the ACEC attributes Dispersed camping allowed Amargosa River Unit Objective: Educate public about area conflicts with OHV use Management Action 1: OHV limited to designated routes Management Action 2: Post interpretive signs along highly used routes	Recreation
Objective: Acquire all inholdings from willing sellers, for State lands within the boundary, investigate potential for doing a land exchange with the state Management Action 1: Prioritize areas identified in the 1983 ACEC Plans and lands in the expanded unit that contain significant resource values Management Action 2: Acquire State and private lands within the unit through exchange or purchase from interested, willing landowners to consolidate public lands. Amargosa Canyon Unit Objective: Provide for long term management of private and state lands within Amargosa Canyon Management Action: Acquire private and State lands in central canyon area	Land Tenure

through land exchange, and/or coordinate land management with private and State owners	
Objective: Site Right of Ways should be consistent with or not impinge upon the purpose of the unit Allowable Uses: Linear Right of Ways that cannot be aligned to avoid the unit will be allowed Management Action: ROW avoidance for entire area except near towns.	Rights of Way (ROW)
Not an allowable use. Renewable energy development is not compatible with the unit's values and criteria Geothermal: Area closed to geothermal leasing and development.	Renewable Energy
Objective: Protect biological and cultural resources Allowable Uses: Open mineral entry w/ stipulations	Locatable Minerals Mineral Materials Non-energy Leasables
Objective: Protect biological and cultural resources Management Action: Maintain Death Valley Junction as a small herd Management Area, following prescriptions from the Herd Management Plan	Wild Horses

Amargosa North



5 Miles

7 Kilometers

N

Preferred Alternative ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

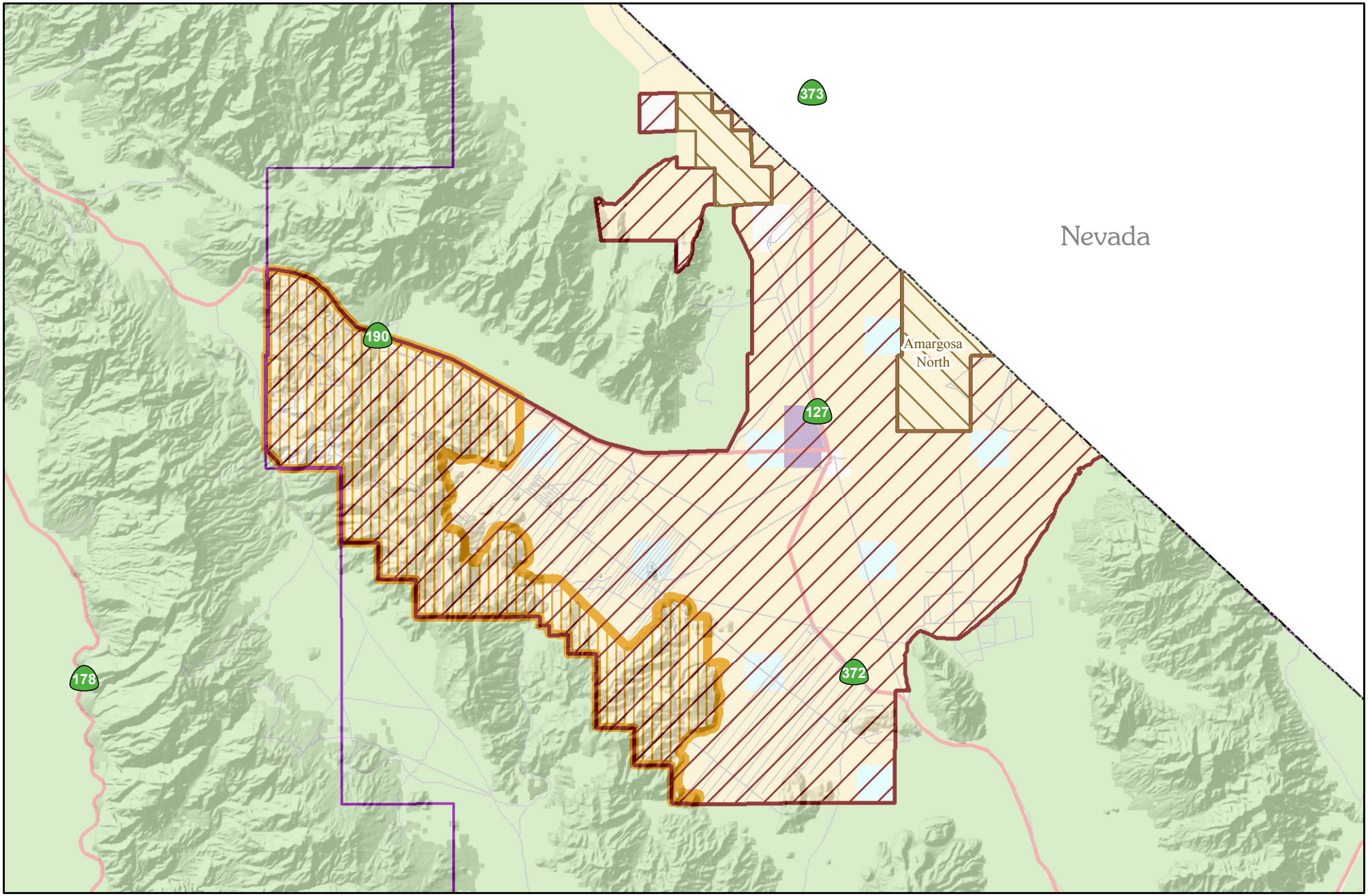
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Amargosa North



5 Miles

7 Kilometers

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Alternative 1 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

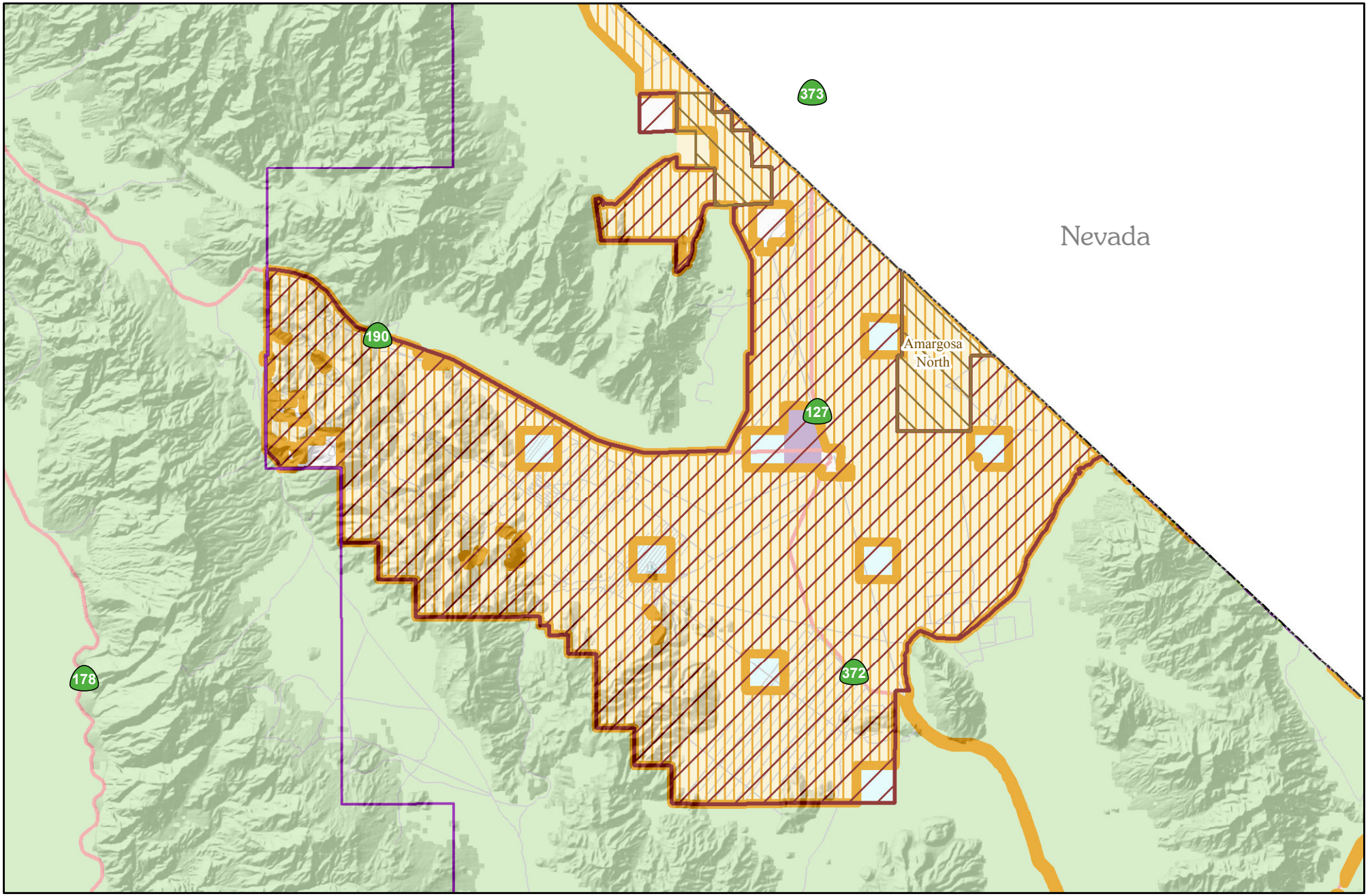
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Amargosa North



5 Miles

7 Kilometers

N

Alternative 2 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

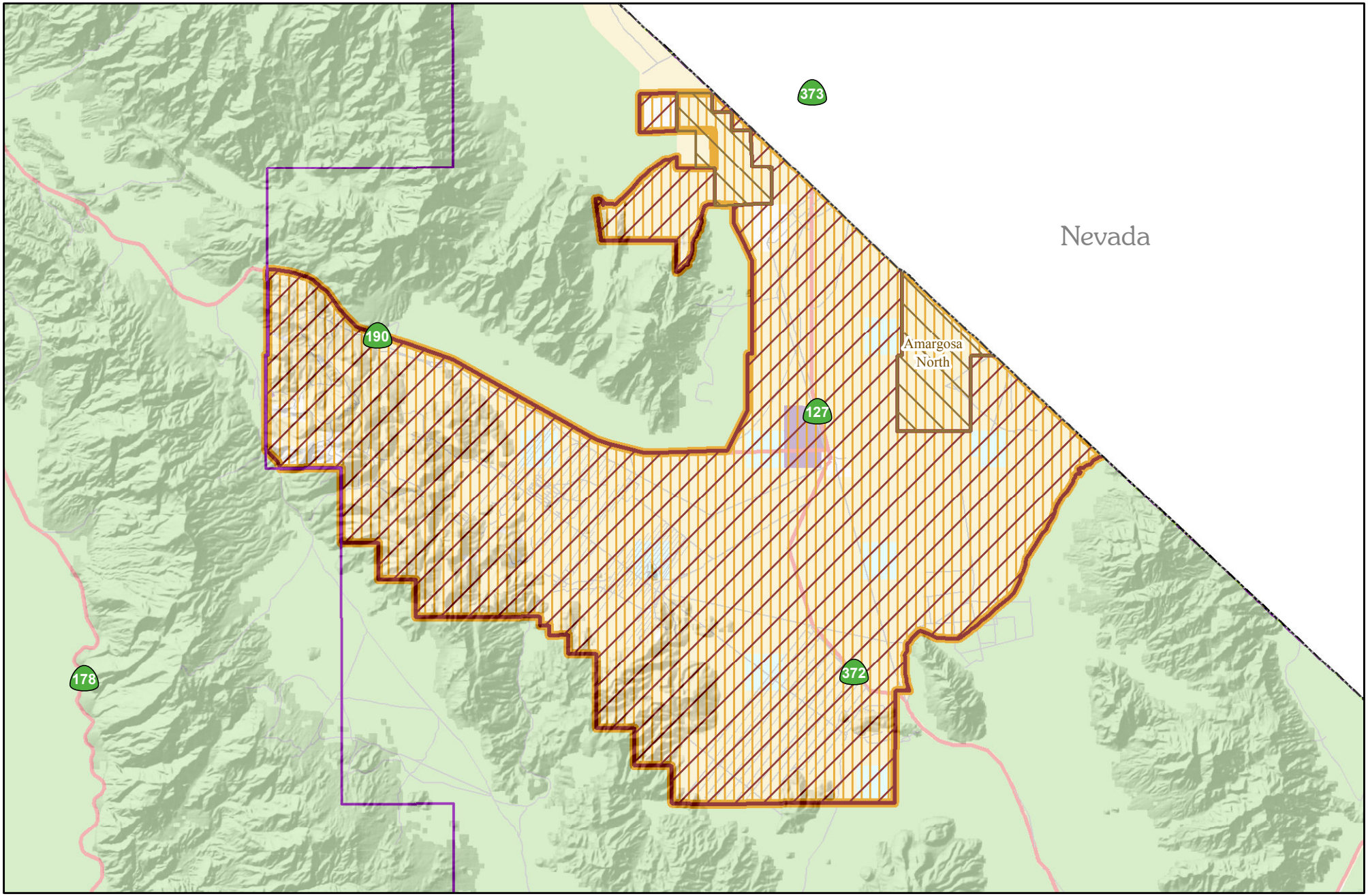
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Amargosa North



5 Miles

7 Kilometers

N

Alternative 3 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

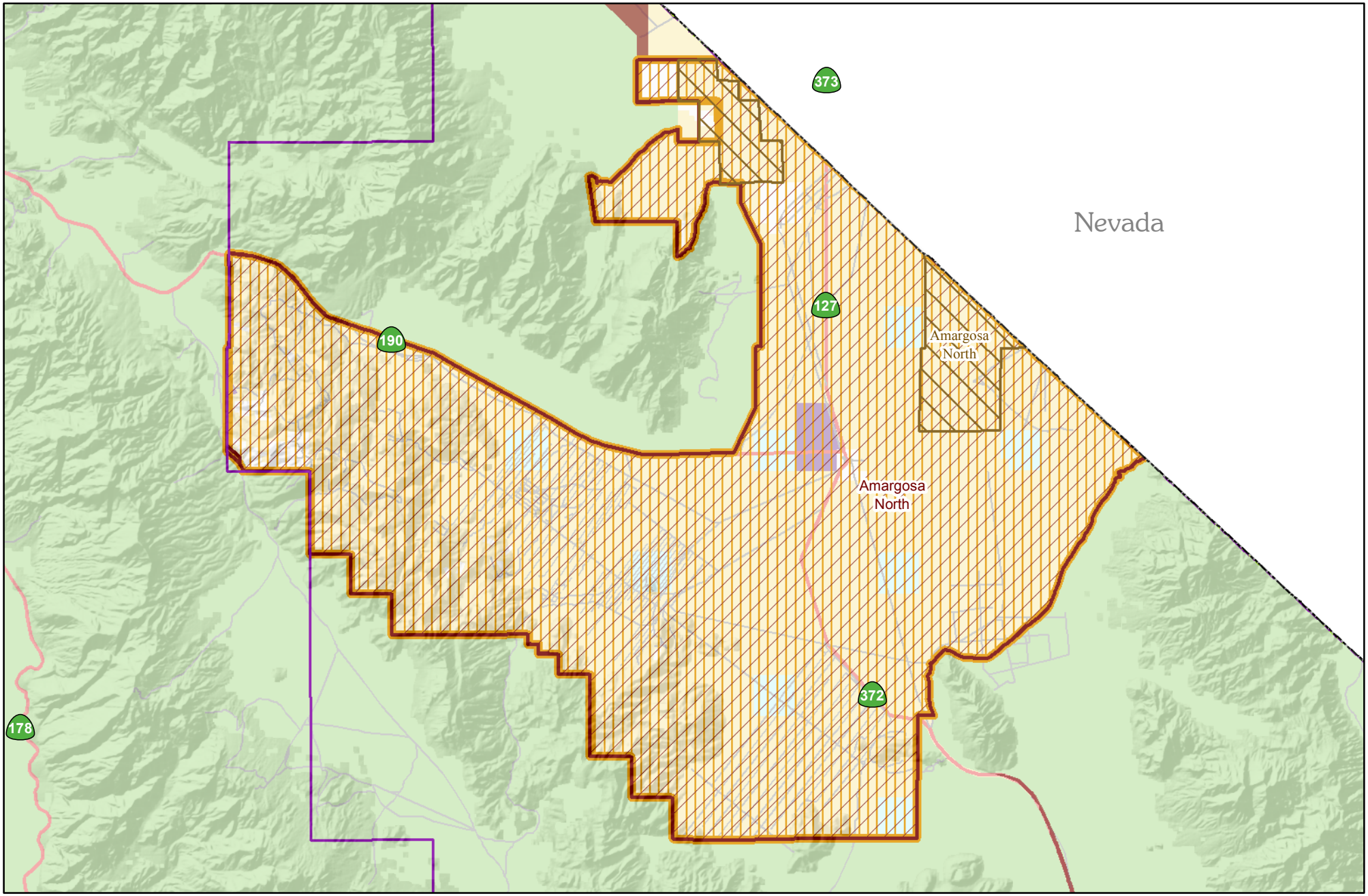
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Amargosa North



4.5 Miles

6 Kilometers

N

Alternative 4 ACECs

Date Printed: 8/6/2014

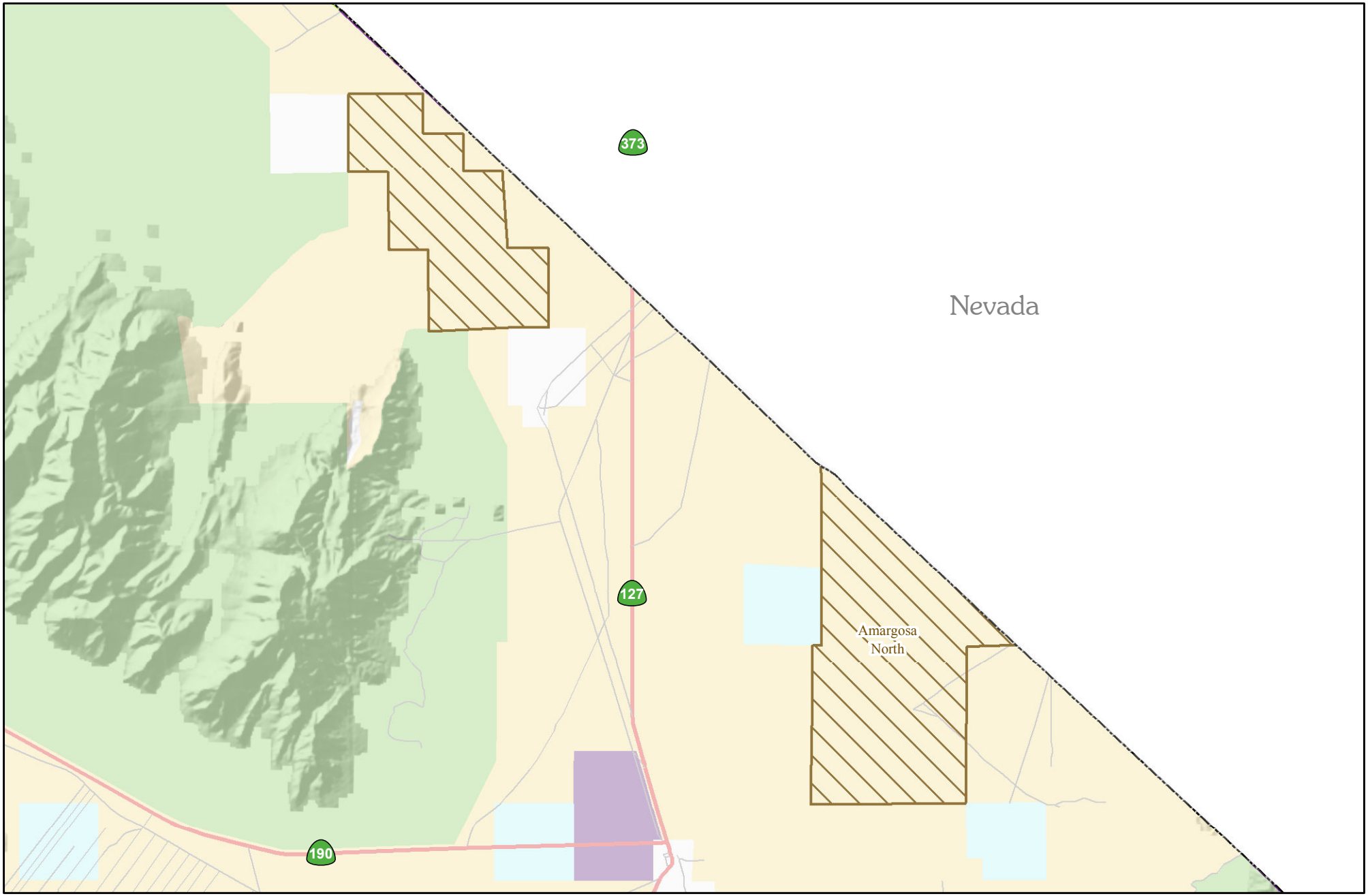
Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed NLCS
- Proposed ACEC
- Proposed Wildlife Allocation
- Legislatively and Legally Protected
- Design Focus Areas
- Variance Lands
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Amargosa North



2 Miles

3 Kilometers

N

No Action ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- OHV Areas
- Legislatively and Legally Protected

- Cities
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Amargosa South (incl. part of Amargosa River and Grimshaw Lake)

Description/Location: Amargosa South (includes original 2 ACECs areas— part of Amargosa River ACEC and Grimshaw Lake ACEC). This ACEC is between Resting Spring Range Wilderness (to the north), Dumont Dunes to the south (not including the Dunes in this ACEC), Nopah Range Wilderness and the South Nopah Range Wilderness, Ibex Wilderness, Pahrump Valley Wilderness, Death Valley National Park, and to Nevada Stateline. The 26.3 mile Amargosa River Wild and Scenic River designated in the Omnibus Public Land Management Act of 2009 includes 1 wild segment, 2 scenic segments, 2 recreational segments is located within the boundary of the ACEC.

Nationally Significant Values:

Ecological: The Amargosa South Unit expansion is marked by permanent flowing water and wetlands in one of the driest desert areas on the continent, and includes a broad range of habitat types, serving as a magnet for a diversity of plant and wildlife species, including many special status species. The area also provides habitat for several narrowly endemic species, some of which may not have been described by scientists. Public lands within this unit provide critical habitat connections between a number of designated BLM wilderness areas. Due to its diverse bird assemblage and habitat significance, this area has been designated a nationally recognized Important Bird Area. This area contains an unusual invertebrate assemblages associated with caves and springs – some species may not have been described yet by scientists.

Cultural: This unit includes some of the most intact viewsheds in the California Desert which protects the historical integrity of tribally significant landscapes, and cultural landscapes associated with the Old Spanish National Historic Trail. The area contains a portion of the Old Spanish National Historic Trail within the Nopah Wilderness known as Emigrant Pass which is in the process of being nominated to the National Register of Historic Places.

Scientific: A long-term demographic/ habitat assessment study is being conducted in this unit on the Amargosa Vole which is a very narrowly endemic (limited to approximately 18 hectars) remnant from historically wetter times. This unit is also subject of a long-term hydrology monitoring study.

Special Designations/Management Plan/Date: portions designated in 1984, Amargosa River ACEC Plan (encompassing Grimshaw Lake ACEC) in preparation, expansion is newly proposed.

Relevance and Importance Criteria: Relevant biological resources including wildlife and plant assemblages. The area is critical for bighorn sheep (including connectivity), has a unique plant assemblage of desert grassland, and the area has regionally significant populations of scrub lotus (*Acmispon argyraeus* var. *multicaulis*), rosy two-toned beardtongue (*Penstemon bicolor* ssp. *roseus*), cottonwood gallery forest and mesquite bosque. Additionally the area provides important bird habitat for prairie falcons, gray vireo, southwest willow flycatcher, least Bell's vireo, yellow billed cuckoo and Bendire's thrasher. The ACEC contains designated critical habitat for the Amargosa vole and occupied habitat for the Amargosa niterwort and provides important habitat for desert tortoise connectivity and the Amargosa pupfish.

The area contains significant historic and prehistoric cultural resources including the Old Spanish National Historic Trail.

Grimshaw Lake ACEC

Relevant riparian, wildlife and cultural values. Permanent flowing water and associated wetlands in the Grimshaw Lake Natural Area provide food, cover and nesting space to a great variety of birds. Many fish, mammals, insects and mollusks present in the natural area have very limited distribution or low population number. This water has also attracted humans for the last several thousand years, and the canyon and

surrounding areas offer opportunities for non-intensive recreation.

Amargosa River ACEC
Relevant riparian, wildlife and cultural values. Permanent flowing water and associated wetlands in the Amargosa River ACEC provide food, cover and nesting space to a great variety of birds. Many fish, mammals, insects and mollusks present in the natural area have very limited distribution or low population number. This water has also attracted humans for the last several thousand years, and the canyon and surrounding areas offer opportunities for non-intensive recreation.

Goals: Protect biological values, including habitat quality, populations of sensitive species, and landscape connectivity while providing for compatible public uses. Protect cultural resources within a landscape setting, to ensure that the environmental context is preserved, especially in association with the Old Spanish National Historic Trail.

Grimshaw Lake ACEC
Maintain current condition and extent of wetland habitats in order to preserve sensitive biological resources.

Amargosa Canyon ACEC
Protect the area's sensitive and rare wildlife, riparian and cultural resources, while still providing for non-intensive recreation. To provide specific administrative guidance for a variety of natural resources present along a small portion of the Amargosa River drainage.

For NLCS Lands -- Where this ruleset differs from the plan-wide NLCS rulesets, the more restrictive rules will apply.

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	19,500	0	NA
Preferred Alternative	143,000	149,300	0	1%
1	115,000	138,700	0	1%
2	138,700	138,700	0	1%
3	131,700	138,000	0	1%
4	129,600	135,800	0	1%

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

Alternatives:
All Action Alternatives – The unit will be managed as it has been, but the boundary would be expanded.

No Action - Under the no action alternative, the unit would be managed as it has been and there would be no expansion.

Objectives (desired future conditions)/Allowable Uses/Management Actions	Resource
Objective: Conserve and protect water resources essential to maintenance of other valued resources and habitats Allowable Uses: Protect ground water by not authorizing withdrawals within the ACEC Management Action 1: Prohibit new non-administrative, discretionary stream diversions and groundwater-disturbing activities on public lands within the ACEC Management Action 2: Assert Federal Reserve water rights for Kingston Range Wilderness, the Amargosa Wild and Scenic River and Public Water Reserves Management Action 3: File for appropriated water rights to conserve existing water sources that support the ACEC's resources and values Management Action 4: Install and maintain stream monitoring equipment to quantify flows in the Amargosa Canyon Management Action 5: Monitor surface water quality at pre-selected locations to gauge condition and trend Management Action 6: Identify, map, and monitor groundwater sources and springs within the ACEC Management Action 7: Monitor water uses from new BLM land use authorizations within the California portion of the Amargosa watershed Objective: Conserve soils and soil properties in the ACEC Objective: Conserve soil resources to maintain other valued resources and habitats Management Action: Conduct an Order III soil survey for the ACEC that will include a series or association level vegetation map for the ACEC Objective: Maintain riparian habitat, permanent water flow through Amargosa Canyon to ensure stability of natural resources dependent upon continued water flow Allowable Uses: Section 33, Township 21 North, Range 7 East: Public water reserve Management Action: Develop projects to prevent degradation of hydrologic resources	Soil, water, air
Objective: Maintain or Improve condition of vegetation Management Action 1: Remove invasive invasive plants, rehabilitate/revegetated disturbed areas Management Action 2: Protect populations of special status plants Amargosa niterwort (*Nitrophila mohavensis*) Ash Meadows gumplant (*Grindelia fraxino-pratensis*) Tecopa bird's-beak (*Chloropyron tecopense*) Amargosa beardtongue(*Penstemon fruticiformis var. amargosae*) Stephens' beardtongue(*Penstemon stephensii*) Pahrump orache (*Atriplex argentea* var. *longitrichoma*) forked buckwheat (*Eriogonum bifurcatum*) Kingston Mountains bedstraw (*Galium hilendiae ssp. kingstonense*) Kingston Mountains ivesia (*Ivesia patellifera*)	Vegetation – Including special status species

Clark Mountain monardella (*Monardella eremicola*) Parish's phacelia (*Phacelia parishii*) Rusby's desert-mallow (*Sphaeralcea rusbyi var. eremicola*) Grimshaw ACEC BLM special status species: - *Cordylanthus tecopensis* - *Centarium namophilum* - *Calochortus striatus* - *Nitrophila mojavensis* Amargosa Canyon ACEC BLM special status species: - *Cordylanthus tecopensis* - *Centarium namophilum* - *Calochortus striatus* - *Nitrophila mojavensis* Management Action 3: Protect Unusual Plant Assemblages: Mesquite bosque Salt and brackish water marshes Cottonwood Gallery Forest/Woodland Objective: Monitor the condition of vegetation to inform adaptive management of vegetation in the ACEC Management Action1: Conduct multi-year surveys to establish a vegetation baseline in the ACEC, including populations of listed and sensitive plant species Management Action 2: Monitor changes in vegetation over time, once a baseline is established Management Action 3: Monitor suitable listed and sensitive plant habitat Management Action 4: Track population trends Management Action 5: Identify additional recovery needs Management Action 6: Identify thresholds for substantial change that would trigger the reevaluation of conservation strategies Objective: Reduce non-native riparian plants along the Amargosa River, especially tamarisk Management Action1: Implement the Barstow Field Office's ten-year weed control plan for tamarisk (*Tamarix* spp.) in upstream portions of the ACEC first and including public, state, and private lands, as feasible Management Action 2: Implement, as needed, a controlled burn program to enhance weed control projects and/or to eliminate refuse from mechanical removal Management Action 3: Restore riparian zones as needed by reintroducing native riparian plant species in areas of weed control and other priority damaged areas Management Action 4: Design projects to enhance nesting habitat of listed and	

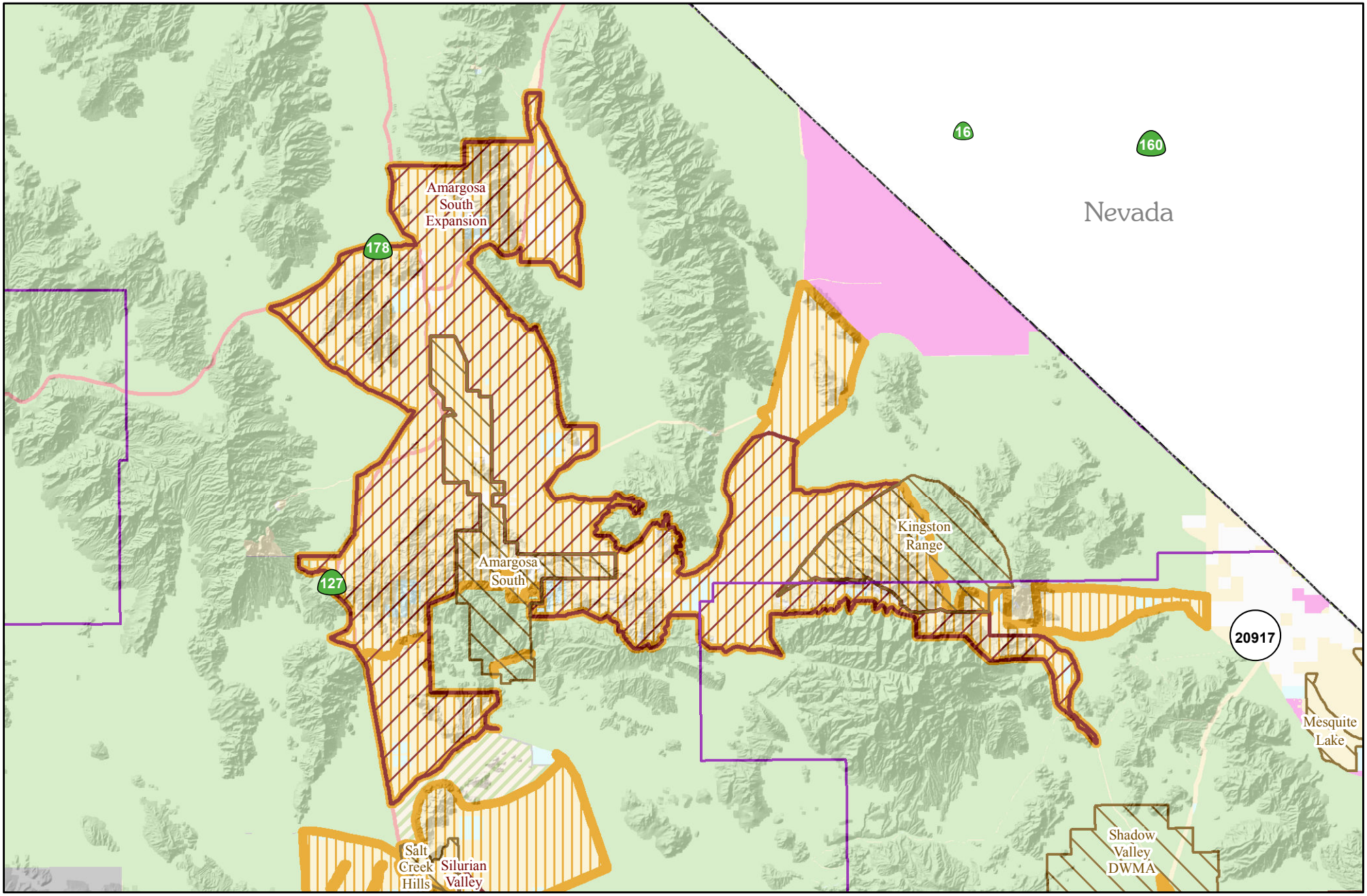
candidate bird species based on local bird surveys, literature review of microhabitat requirements, and advice from avian ecologists Management Action 5: Prohibit non-restoration related fires on public lands within the ACEC Objective: Protect populations and habitats of listed and rare plant species Management Action 1: Maintain existing protective fences Management Action 2: Fence and restore closed vehicle routes Management Action 3: Put in place signs identifying known populations that people or other disturbances are impacting Objective: Maintain riparian habitat quality Management Action: Remove tamarisk from area Objective: Improve riparian habitat Management Action: Remove tamarisk in Natural Area and allow for native plant growth	
Objective: Maintain or improve habitat for sensitive wildlife species Management Action: Protect populations of special status animals Amargosa vole Death Valley agabus diving beetle (Agabus rumppi) Shoshone Cave whip-scorpion (*Hubbardia shoshonensis*) Death Valley June beetle (Polyphylla erratica) Shoshone Cave harvestman(Texella Shoshone) Amargona naucorid bug (*Pelacoris shoshone*) Pallid bat Townsend's big-eared bat Long-legged myotis (*Myotis volans*) Kingston Mountain chipmunk(Neotamias panamintinus acrus) Mojave fringed toed lizard Nelson's biorhorn sheep Western Yellow-billed Cuckoo – CDFG listed species Long-eared Owl – CDFG species of concern Loggerhead Shrike – CDFG species of concern Yellow breasted Chat – CDFG species of concern Bendire's Thrasher – BLM sensitive species Crissal Thrasher – BLM sensitive species Gray vireo – BLM sensitive species Least Bell's vireo – federally listed Southwest Willow Flycatcher – federally listed Brown-crested Flycatcher – CDFG species of concern Vermillion flycatcher – CDFG species of concern Lucy's Warbler – BLM sensitive species Virginia's Warbler – CDFG species of concern Yellow warbler – CDFG species of concern Summer Tanager – CDFG species of concern Amargosa pupfish and Shoshone pupfish	Fish and Wildlife – Including special status species

Amargosa River ACEC speckled dace (Rhinichthys osculus ssp. 1) Grimshaw Lake ACEC Special Status Species: - Least Bell's Vireo - Amargosa vole - Yellow-billed cuckoo - Amargosa River Pupfish - Speckled Dace Objective: Protect sensitive species and their habitat by preventing irreparable damage Management Action 1: Reduce the numbers of exotic fauna in habitats of listed species habitats using established protocols to respond to: house mouse (*Mus musculus*); free-roaming and/or feral domestic cats; brown-headed cowbirds; and other species as identified Management Action 2: Repair portions of the Tidewater and Tonopah (T and T) railroad grade that might cause loss of Amargosa vole populations and habitat from Amargosa River flooding where ecologically feasible and economically feasible Management Action 3: Collaborate with the FWS, USGS, and CDFG to translocate voles to other suitable habitats if repair of railroad potential problem areas is not reasonable or feasible Management Action 4: Construct a vehicle barrier at the mouth of Cowboy Canyon to protect riparian habitat of listed species Management Action 5: Survey for populations of Amargosa River pupfish (*Cyprinodon nevadensis amargosae*) and the Amargosa Canyon speckled dace (*Rhinichthys osculus* ssp.1) Management Action 6: Monitor and evaluate habitat trends and conditions specific to listed species on public lands throughout the ACEC Management Action 7: Work with private landowners, the State, and other federal agencies to identify listed species habitat and habitat trends throughout the ACEC Management Action 8: Inventory invertebrate populations and assemblages in the ACEC associated with caves and springs Management Action 9: Monitor sensitive fish and invertebrate microhabitats to identify trends and threats	
Objective: Implement new Wild and Scenic River Trail Plan (under development) Allowable Uses: limited to designated roads and trails, no new routes other than in plan Management Action 1: Maintain existing off-road vehicle barriers at the southern end of the Amargosa River ACEC adjacent to Sperry Wash to protect wilderness values; support the existing OHV vehicle closure in Amargosa	Trails and Travel Management

Canyon; and to protect listed species and their habitats Management Action 2: Build an OHV exclusion barrier at the trailhead of the rerouted northern end of the Tecopa Trail and restore the previous trailhead, as needed Management Action 3: Close open route in Tecopa Marsh Management Action 4: Continue existing closure around Tecopa (approximately 10,000 acres) Objective: Control vehicle access in Grimshaw Lake ACEC Allowable Uses: OHV limited to designated routes Management Action: Post signs Objective: Control vehicle access to Amargosa Canyon ACEC Allowable Uses: OHV limited to designated routes outside ACEC Management Action: Post signs to block access	
Objective: Administer and manage trail resources in accordance with Old Spanish Trail Comprehensive Management Plan, NTSA, FLMPA, local RMPs, and agency policy and direction. Allowable Uses: Research, interpretation, recreation. Management Action: Designate Trail Management Corridor	National Historic Trails
Objective: Administer and manage river resources in accordance with Amargosa Wild and Scenic River Comprehensive Management Plan, NTSA, FLMPA, local RMPs, and agency policy and direction. Allowable Uses: Research, interpretation, recreation. Management Action: Implement WSR management plan	Wild and Scenic Rivers
Refer to the Amargosa/Grimshaw Special Recreation Management Area (SRMA) write-up for detailed objectives, allocations, and management direction. Objective: Provide dispersed opportunities for enjoyment of the ACEC attributes Allowable Uses: Dispersed camping Objective: Limit OHV impacts on resources at Grimshaw Lake ACEC Allowable Uses: OHV limited to designated routes Management Action: Post interpretive signs along highly used routes Objective: Limit OHV impacts on resources at Amargosa Canyon ACEC Allowable Uses: OHV limited to designated routes Management Action: Post interpretive signs along highly used routes	Recreation
Objective: Acquire all inholdings from willing sellers Management Action 1: Prioritize areas identified in the 1983 ACEC Plans and lands in the expanded ACEC that contain significant resource values Management Action 2: Acquire State and private lands within the ACEC through exchange or purchase from interested, willing landowners to consolidate public lands.	Land Tenure

Objective: Increase protection of sensitive resources present within the Grimshaw Lake ACEC through protective withdrawal of public lands Management Action: Submit request that public lands within the Natural Area be withdrawn from appropriation under the public land laws Objective: Provide for uniform management of wetland habitats in basin through cooperative effort with interested landowners Management Action: Acquire private lands near ACEC that contain standing water/marsh habitat through exchange Objective: Provide for long term management of private and state lands within Amargosa Canyon Management Action: Acquire private and State lands in central canyon area through land exchange, and/or coordinate land management with private and State owners	
Objective: Protect resource values Allowable Uses: Exclusion zone for site ROW, okay for linear, no ROW in critical habitat, no ROWs that alter groundwater regimes	Rights of Way (ROW)
Objective: Maintain integrity of large blocks of habitat Allowable Uses: Not an allowable use. Renewable energy development is not compatible with NLCS and ACEC unit values and criteria Geothermal: Area closed to geothermal leasing and development	Renewable Energy
Objective: Protect biological resources Allowable Uses: Closed to all new mineral entry, existing ok. Management Action: Prioritize acquisition of private mines and rehabilitate, closed to mining within Amargosa Canyon ACEC	Locatable Minerals Mineral Materials Non-energy Leasables

Amargosa South



7.5 Miles

10 Kilometers

N

Preferred Alternative ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

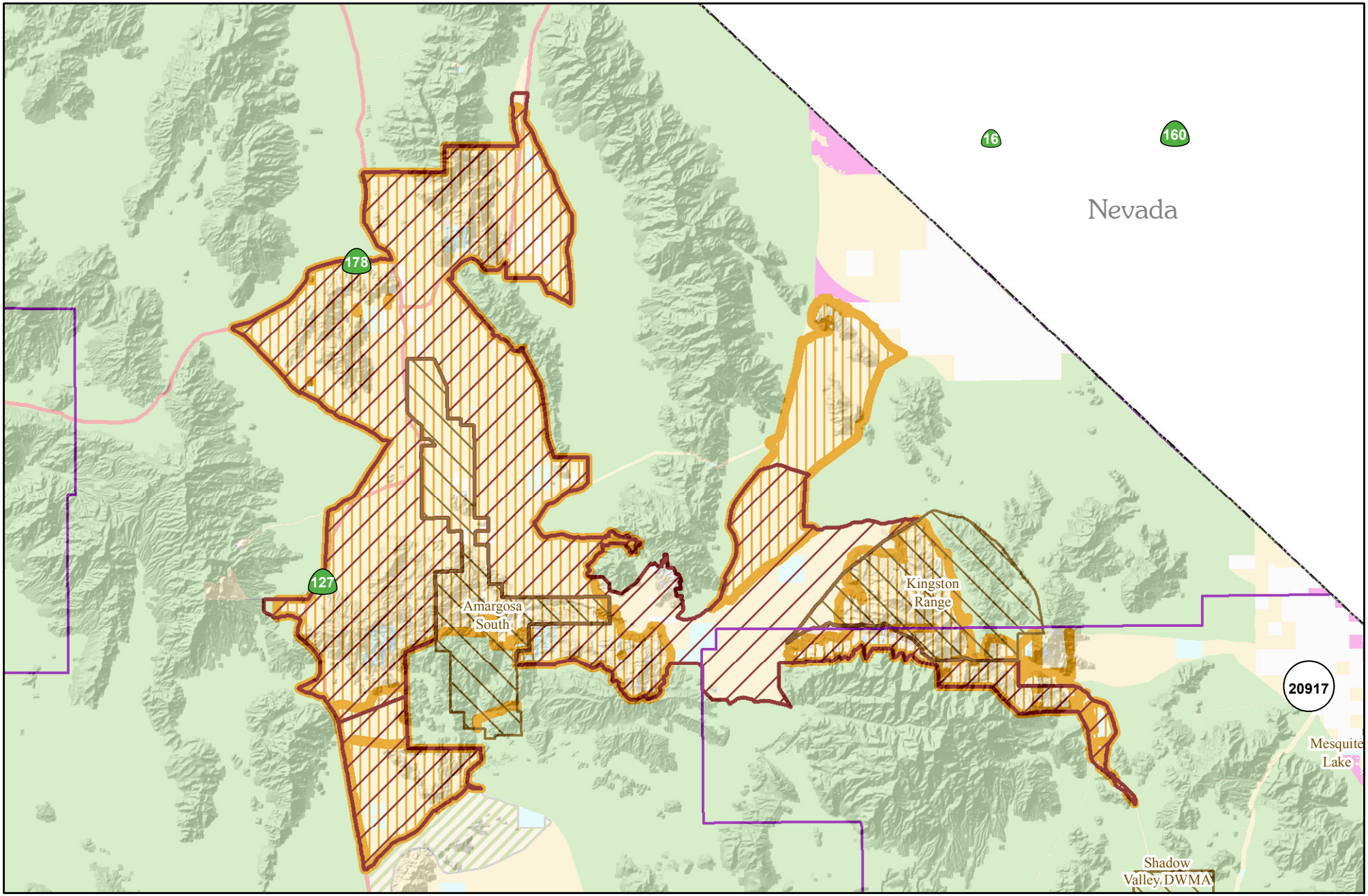
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Amargosa South



7 Miles

10 Kilometers

N

Alternative 1 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

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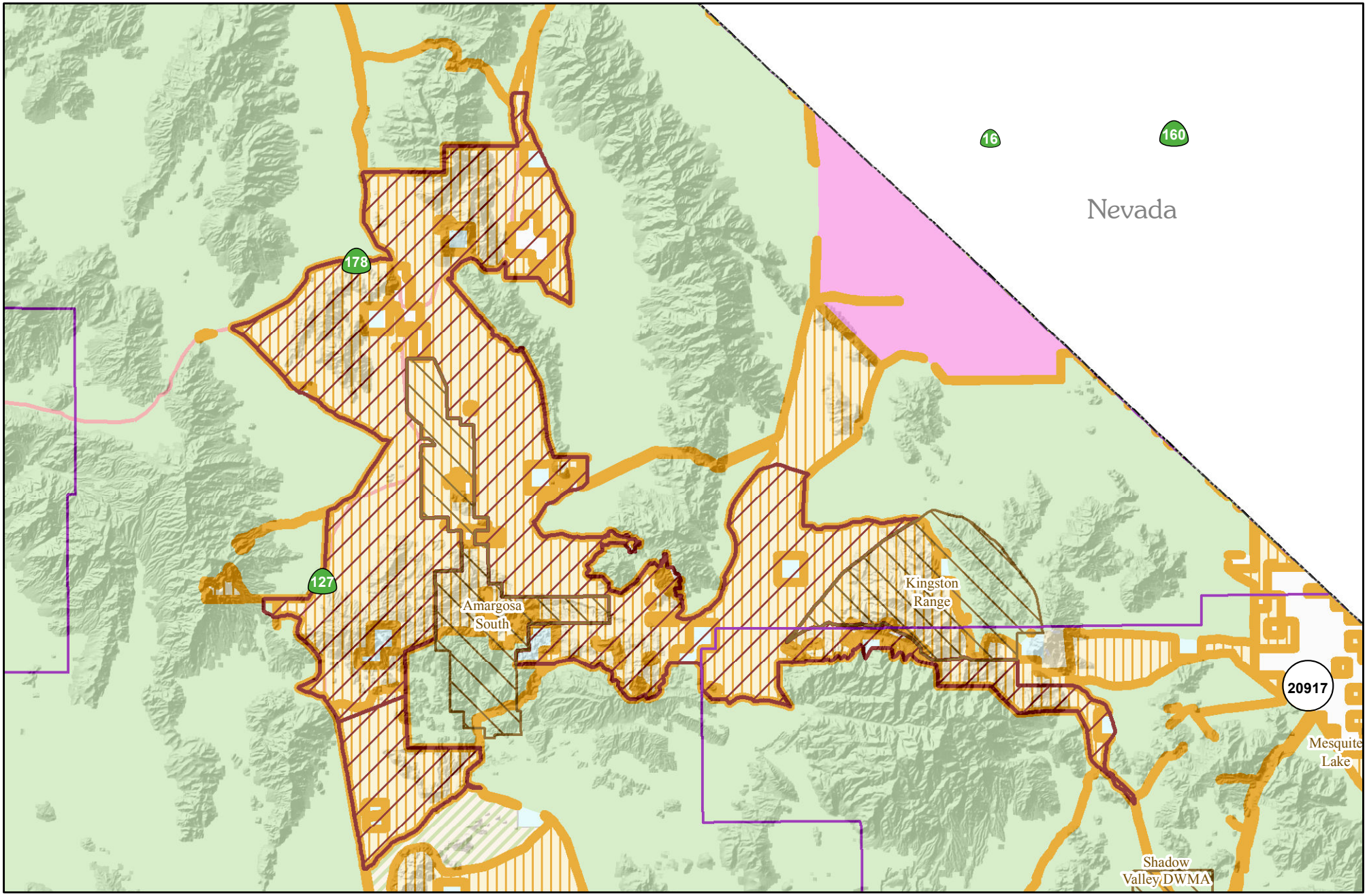
Amargosa South



7 Miles
10 Kilometers

N

Alternative 2 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers
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- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
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- DRECP Boundary
- BLM Field Office

Land Status
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GTLF
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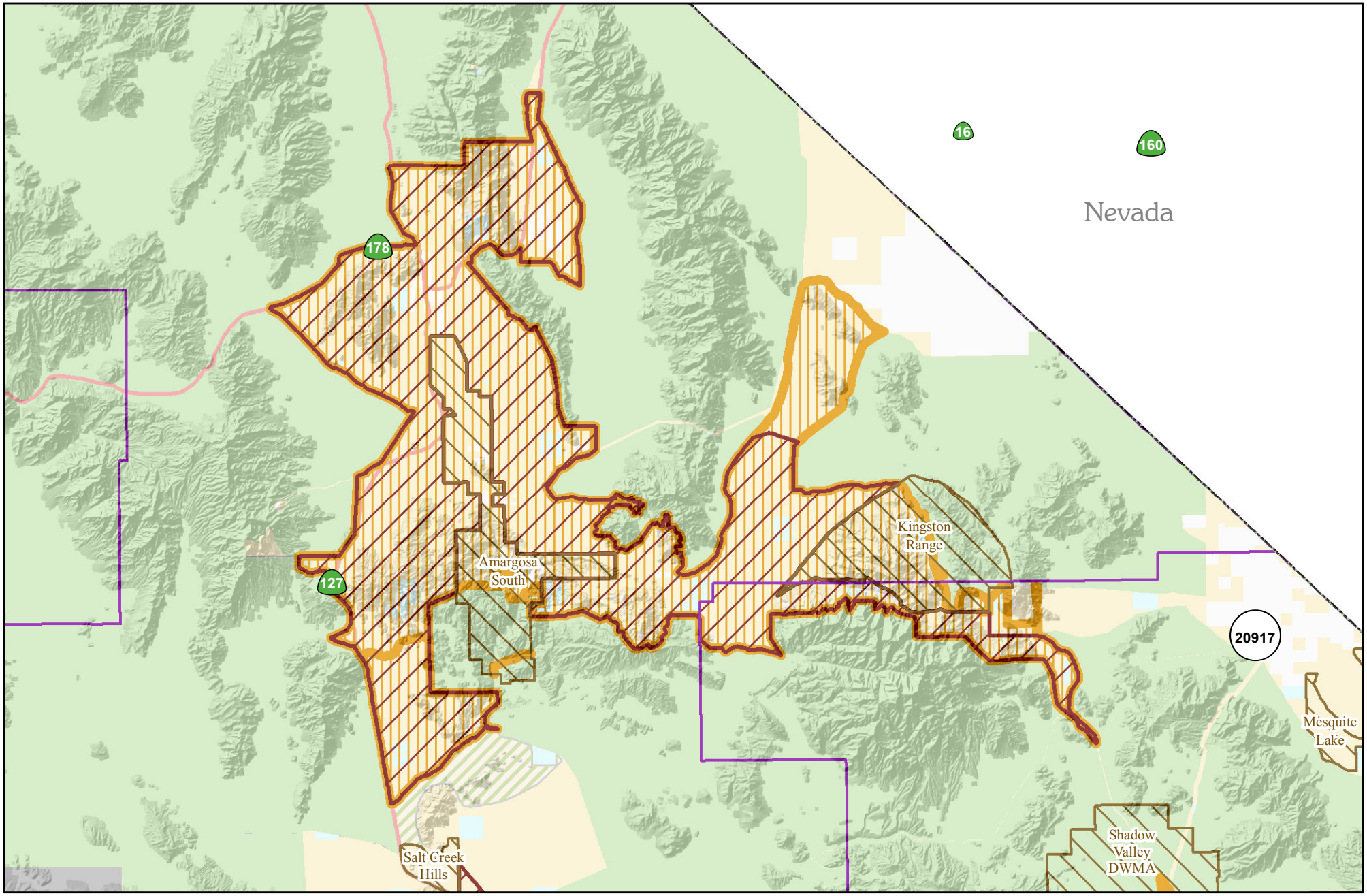
Amargosa South



7.5 Miles

10 Kilometers

N

Alternative 3 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

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GTLF

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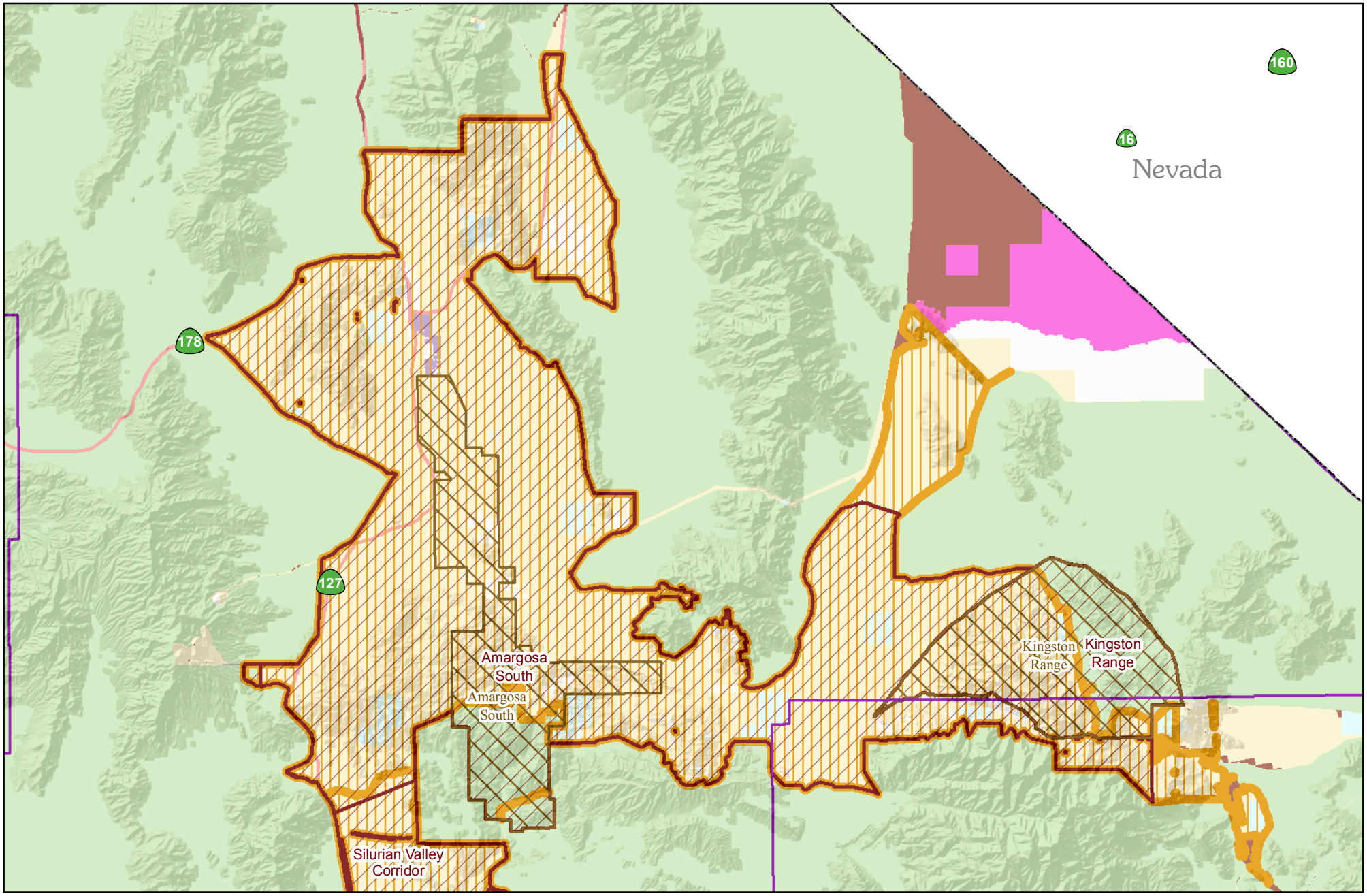
Amargosa South



5.5 Miles

8 Kilometers

N

Alternative 4 ACECs

Date Printed: 8/6/2014

Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed NLCS
- Proposed ACEC
- Proposed Wildlife Allocation
- Legislatively and Legally Protected
- Design Focus Areas
- Variance Lands
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
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- State
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- Private

GTLF
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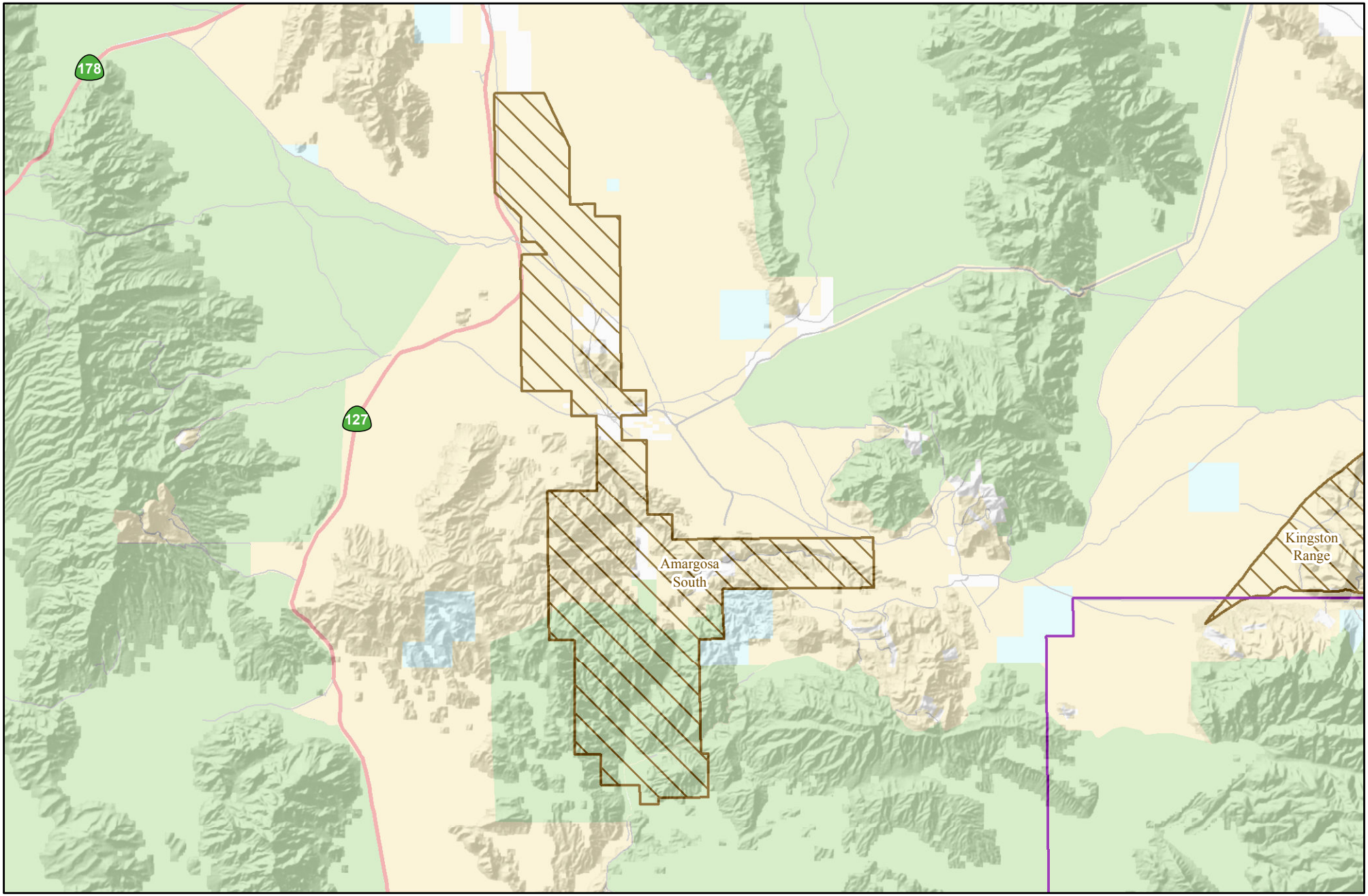
- County Hwy

Amargosa South



3.5 Miles

5 Kilometers

N

No Action ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- OHV Areas
- Legislatively and Legally Protected
- Cities
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

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- State
- Other Federal
- Military
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GTLF

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- CA Hwy
- County Hwy

Clark Mountain

Description/Location: The Clark Mountain Range is located in northeastern San Bernardino County, 60 miles south/southwest of Las Vegas, Nevada, and 75 miles northwest of Needles, California. Clark Mountain is a prominent local landmark. The ACEC consists currently of two segmented parts separated by the creation of the Mojave National Preserve, Clark Mountain unit. Clark Mountain is an "island" mountain in the central portion of the Clark Mountain Range. The ACEC is located in the central portion of the Clark Mountain Range.

Nationally Significant Values:
Cultural:
Clark Mountain ACEC contains extensive evidence of prehistoric aboriginal occupation spanning over a period of 4000 years. Today, Clark Mountain is also of special importance to Native Americans due to its spiritual significance. Clark Mountain houses the oldest town site in the eastern Mojave Desert is located in the Clark Range at Ivanpah Springs.

Mgmt. Plan/Date of Designation – ACEC #19/ 1986

Relevance and Importance Criteria:
The area has some of the richest flora and fauna in the California Desert, including 11 plant communities and the largest relic stand of white fir in the CDCA. The Clark Mountains are the highest mountains in the CDCA, resulting in the unique "island" qualities and isolated ecosystems. The area is also significant to Native Americans for spiritual values and as an area important for past habitation and use.

Goals: Provide protection and special management attention for sensitive natural and cultural resources that will enhance their status and condition while providing for uses that are compatible with the protection and enhancement of sensitive resources.

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	4,300	0	NA
Preferred Alternative	0	4,300	0	1%
1	0	4,300	0	1%
2	4,300	4,300	0	1%
3	0	4,300	0	1%
4	0	4,300	0	1%

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

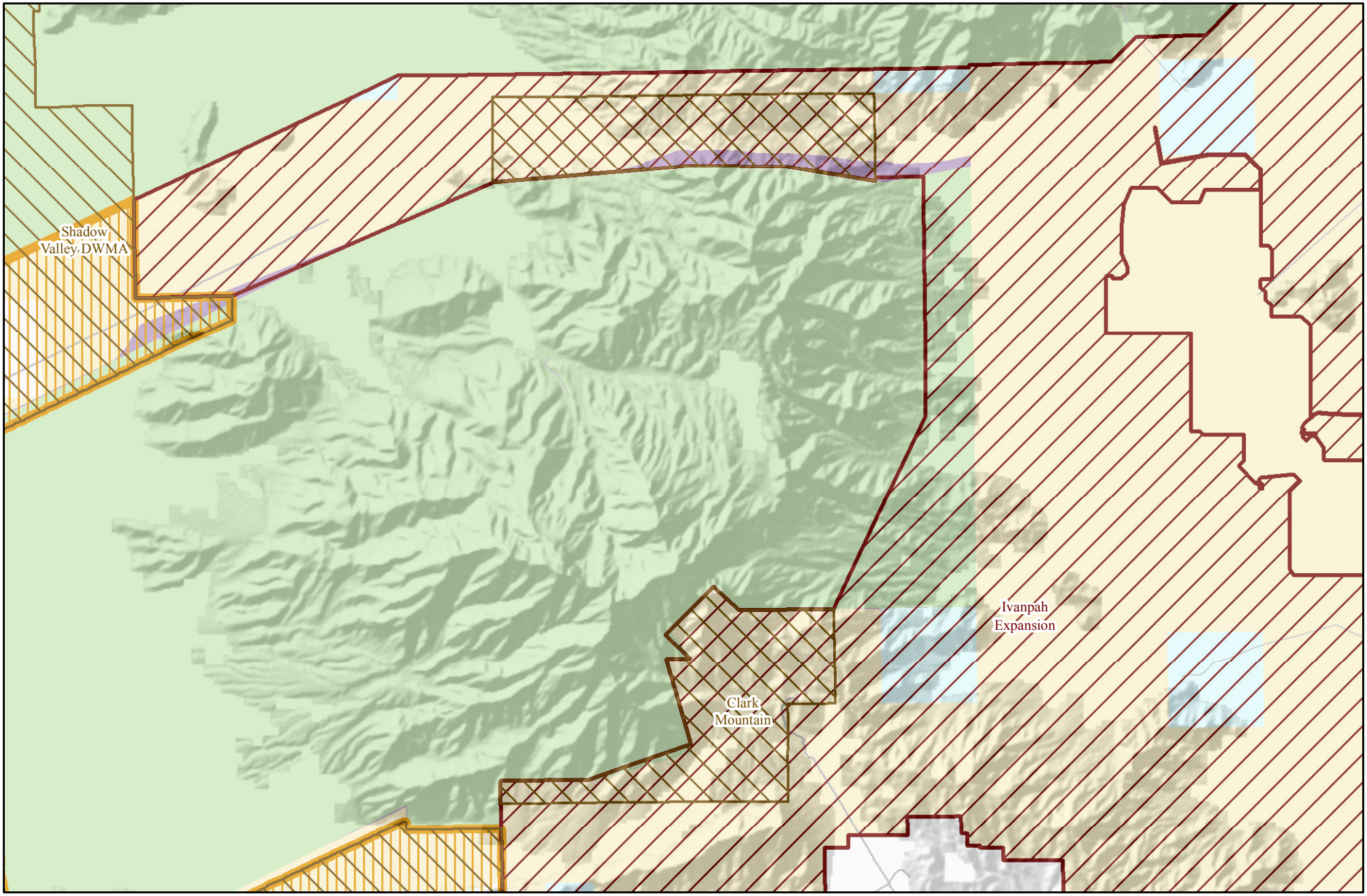
Alternatives:–
All Action Alternatives: The majority of this ACEC is now within the Mojave National Preserve. Maintaining this unit is more logically managed as part of the Ivanpah ACEC. This ACEC designation will be retired, but the lands will continue to be protected under the Ivanpah ACEC.

No Action: this existing ACEC would continue to be managed as it currently is.

Objectives (desired future conditions)/Allowable Uses/Management Actions	**Resource**
BLM sensitive species – polished blazing star (*Mentzelia polita*) [CNPS.1B.2] Rusby's desert-mallow (*Sphaeralcea rusbyi* ssp. *eremicola*) [CNPS 1B.2] Unusual plant assemblages including riparian areas Other rare plant species: Coyote gilia (*Aliciella triodon*) [CNPS 2.3] scaly cloak fern (*Astrolepis cochisensis* ssp. *cochisensis*) [CNPS 2.3] three-awned grama (*Bouteloua trifida*) [CNPS 2.3] desert pincushion (*Coryphantha chlorantha*) [CNPS 2.1] Gilman's cymopterus (*Cymopterus gilmanii*) [CNPS 2.3] nine-awned pappus grass (*Enneapogon desvauxii*) [CNPS 2.2] viviparous foxtail cactus (*Escobaria vivipara* var. *rosea*) [CNPS 2.2] desert bedstraw (*Galium proliferum*) [CNPS 2.2] plains flax (*Linum puberulum*) [CNPS 2.3] tough muhly (*Muhlenbergia arsenei*) [CNPS 2.3] Utah beardtongue (*Penstemon utahensis*) [CNPS 2.3] Aven Nelson's phacelia (*Phacelia anelsoni*) [CNPS 2.3] Chamber's Physaria (*Physaria chambersii*) [CNPS 2.3] Abert's sanvitalia (*Sanvitalia abertii*) [CNPS 2.2] Mormon needle-grass (*Stipa arida*) [CNPS 2.3] Also many more CNPS class 4 plant species. Objective: Protect and preserve habitat Action: Botanical inventory focusing on rare and threatened plants Inspect casual recreation sites routinely and minimize impacts	Vegetation (incl. special status species)
BLM CA Sensitive Species – Bendire's Thrasher (*Toxostoma bendirei*), Gray Vireo (*Vireo vicinior*), Desert bighorn sheep Objective: Improve water sources for wildlife Action: Install one big game guzzler and a small wildlife drinker Inspect existing water sources for water quality and availability Objective: Protect and improve native vegetation in habitats of Bendire's Thrasher and Gray Vireo. Action: Evaluate sites for abnormally fine-fuel loads from non-native species. Implement habitat restoration where needed (cattle exclosures, weed treatments) Monitor populations of these species routinely.	Fish and Wildlife (incl. special status species)

Objective: Monitoring/Protective Measures Management Action 1: Provide on-going monitoring for cultural resources based on the threat assessment. Objective: Ensure that the Native American concerns are fully considered in all BLM management decisions Management Action 1: Apprise and solicit the comments of indigenous tribal representatives regarding all undertakings within the ACEC Objective: Protect and monitor cultural resources Management Action 1: Increase ranger patrol. Assess nature and extent of visitation, unauthorized use, and condition trends.	Cultural Resources
3 high power transmission lines along northern edge of ACEC. Management Action: Limit linear ROWs to existing transmission corridors.	Rights of Way
Not an allowable use. Renewable energy development is not compatible with NLCS and ACEC unit values and criteria Geothermal: Area is closed to geothermal leasing and development	Renewable Energy
Numerous patented mining claims, no current large-scale mining operations in operation. PO required for mining. Limit saleable and leaseable minerals actions to those that do not conflict	Locatable Minerals Mineral Materials Non-energy Leasables
Objective: Protect wildlife habitat from impacts associated with cattle grazing Management Action: There is a current cattle allotment within this ACEC. Retirement allotment should the permitee voluntarily relinquish it. Management Action: Minimize impacts to soils, water, and vegetation.	Livestock grazing
Objective: Reduce conflicts between cultural and wildlife resources Action: Eliminate of substantially reduce the area's burro population	Wild Horses and Burros

Clark Mountain



2 Miles
2.5 Kilometers

N

Preferred Alternative ACECs

Date Printed: 5/29/2013

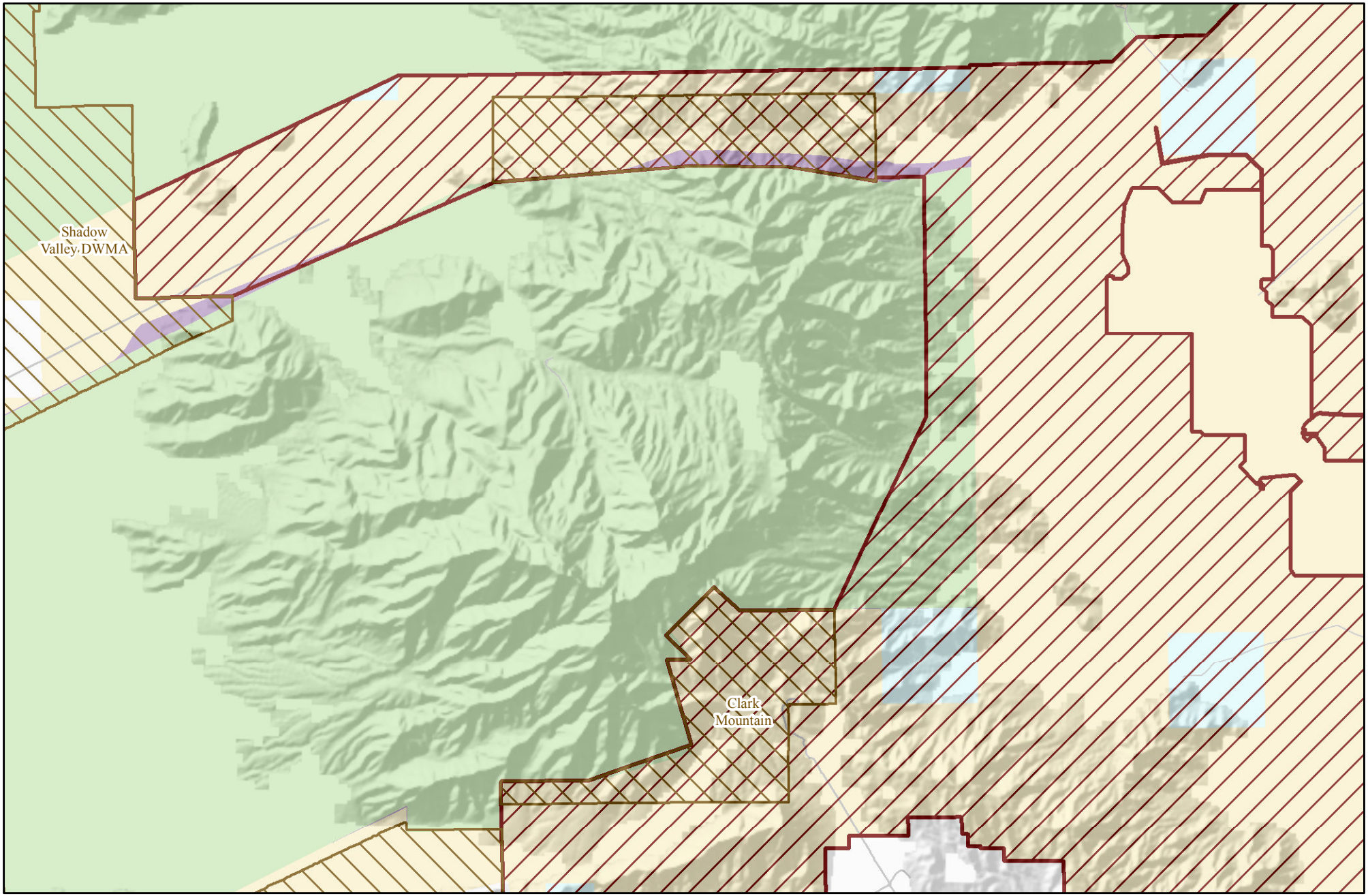
Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Clark Mountain



2 Miles

2.5 Kilometers

N

Alternative 1 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
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Land Status

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GTLF

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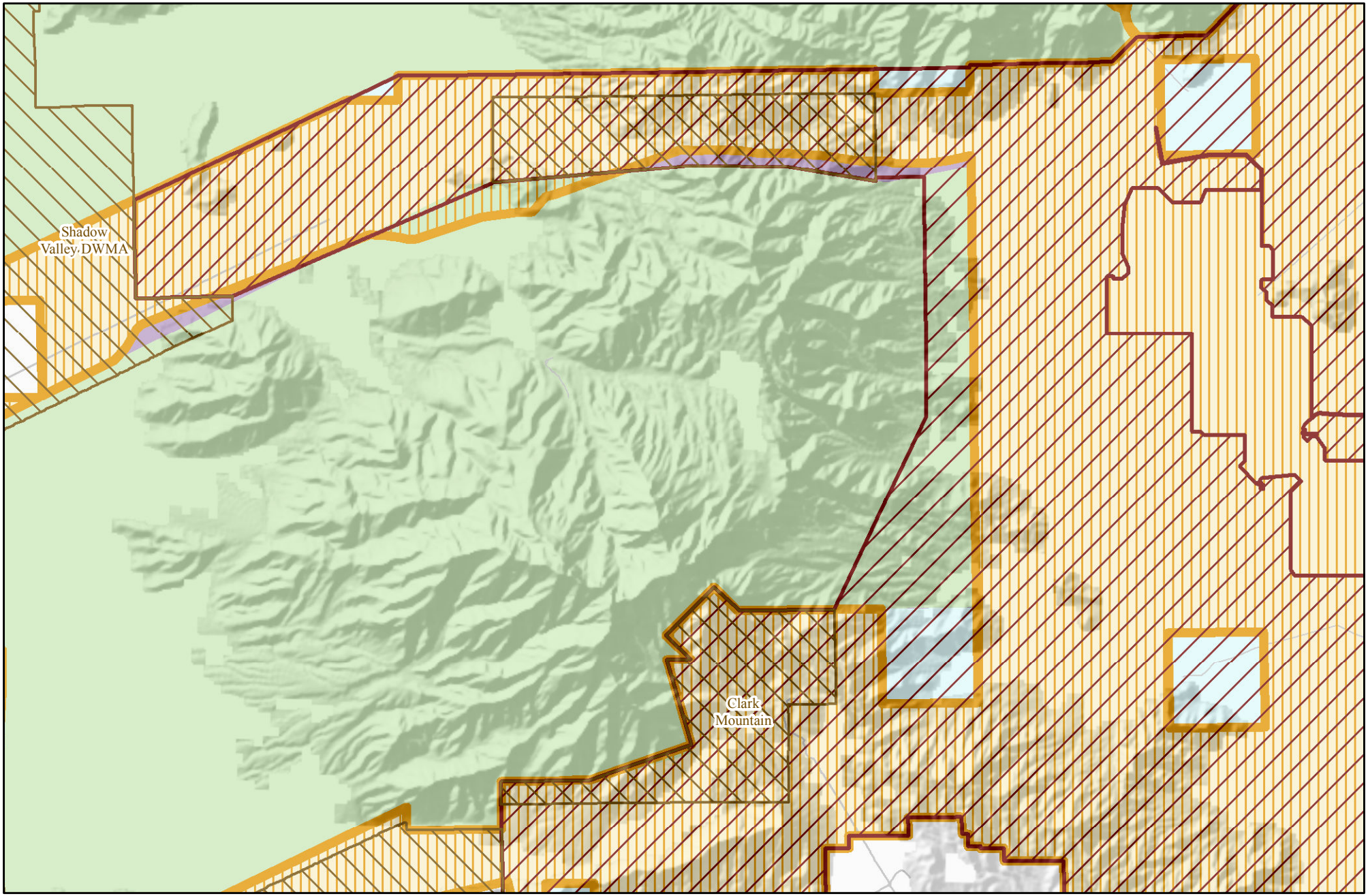
Clark Mountain



2 Miles

2.5 Kilometers

N

Alternative 2 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

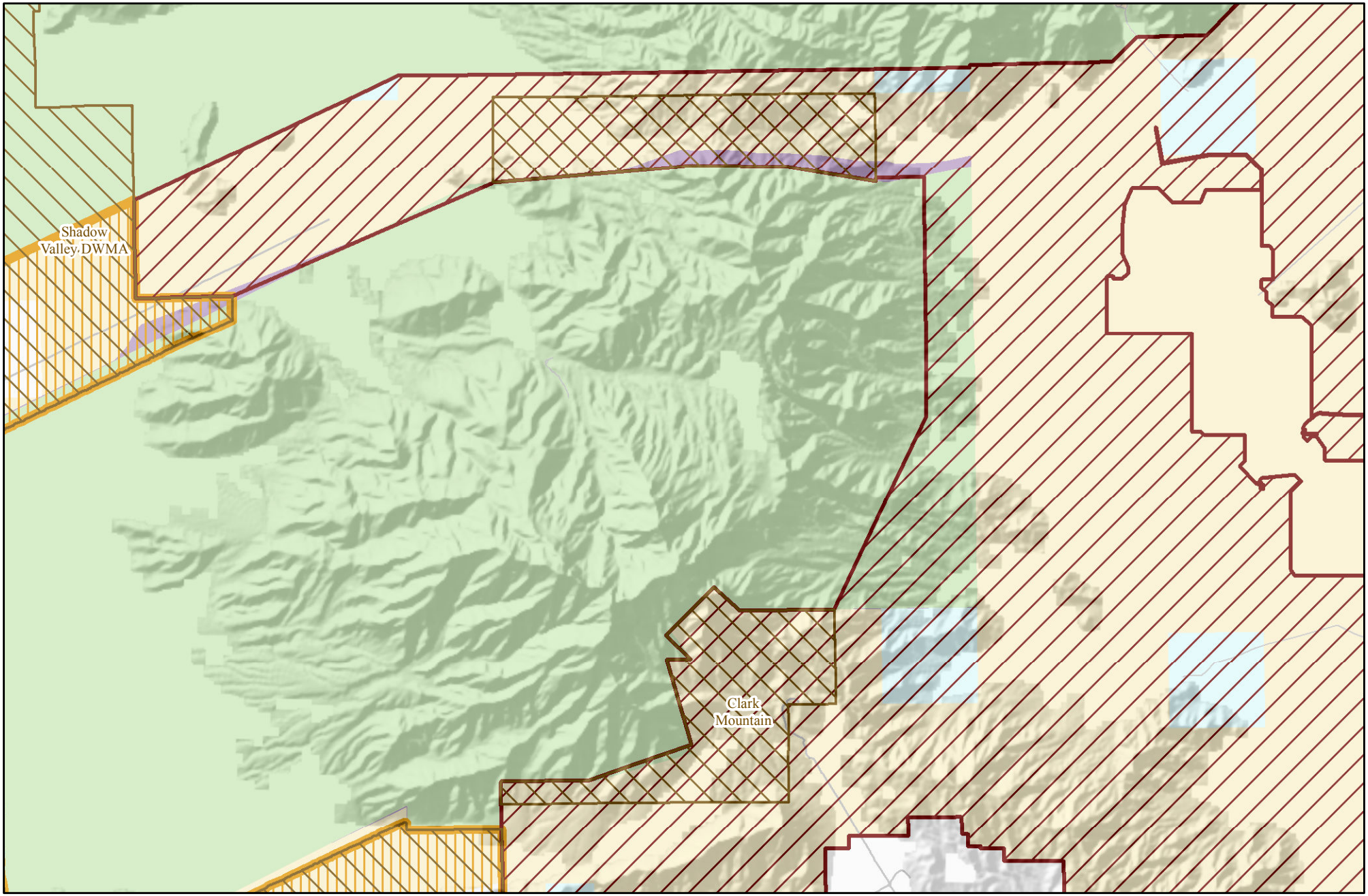
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Clark Mountain



2 Miles

2.5 Kilometers

N

Alternative 3 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

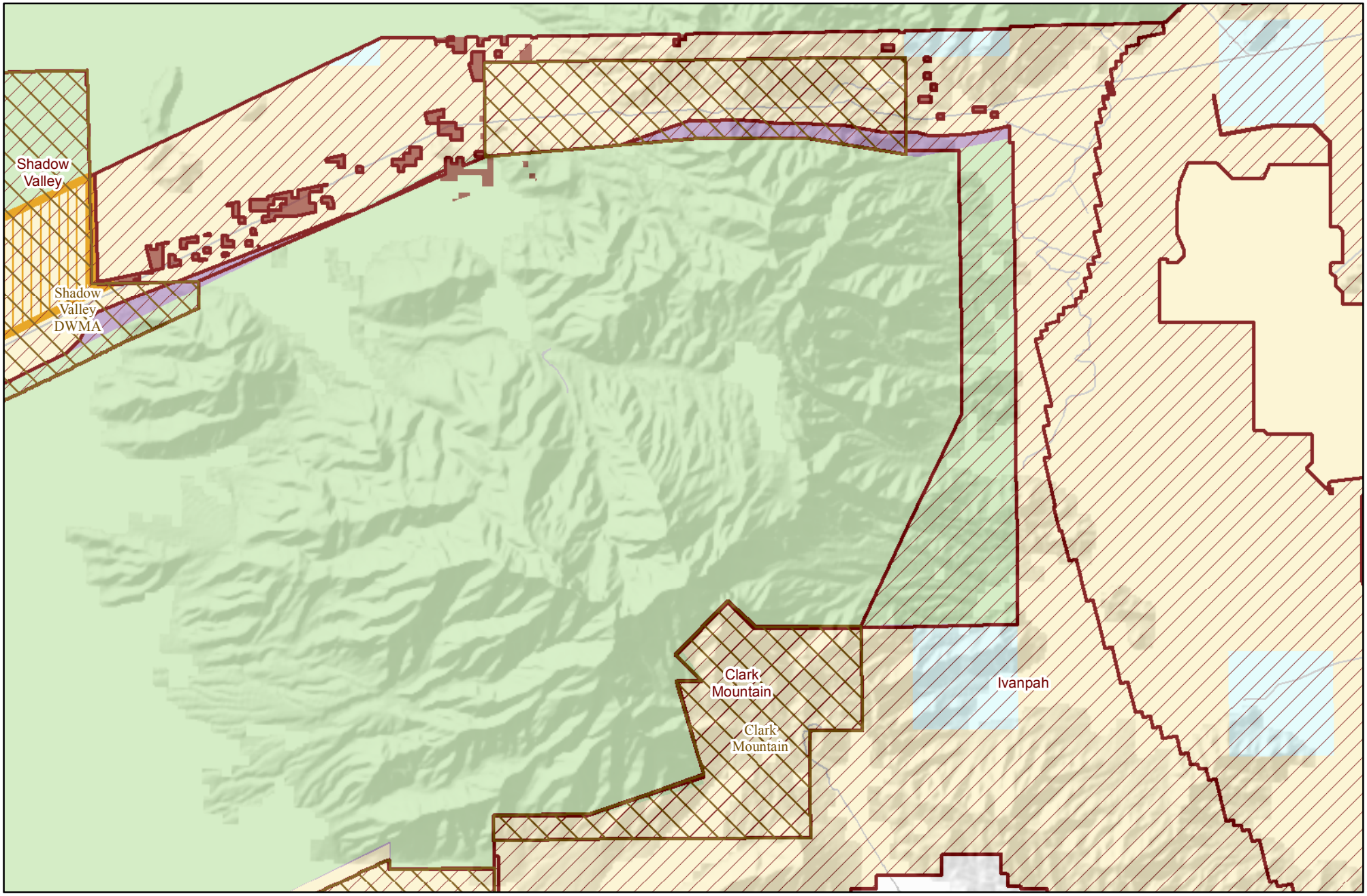
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Clark Mountain



1.5 Miles

2.5 Kilometers

N

Alternative 4 ACECs

Date Printed: 8/6/2014

Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed NLCS
- Proposed ACEC
- Proposed Wildlife Allocation
- Legislatively and Legally Protected
- Design Focus Areas
- Variance Lands
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
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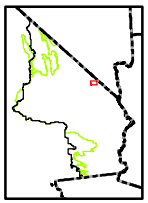
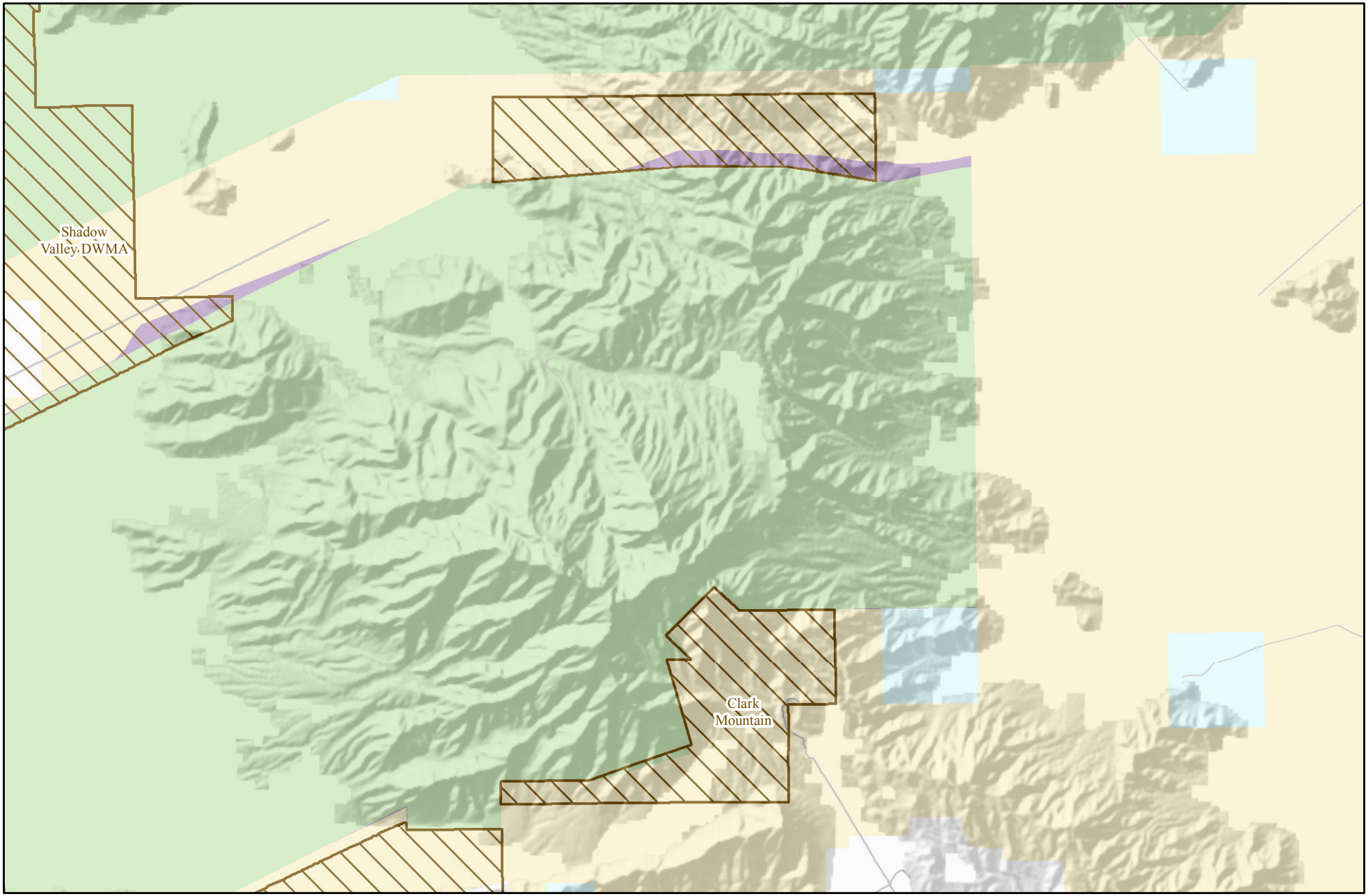
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy



Clark Mountain



2 Miles

2.5 Kilometers

N

No Action ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- OHV Areas
- Legislatively and Legally Protected
- Cities
- CDCA Boundary
- DRECP Boundary
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Land Status

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- State
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- Private

GTLF

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- US Hwy
- CA Hwy
- County Hwy

Halloran Wash

Description/Location: Halloran Wash is located approximately 15 miles east of Baker, California, between Halloran Springs and Halloran Summit off-ramps.

Nationally Significant Values:
Halloran Wash is located within a large mesa gorge; the walls of the gorge are highly oxidized dark reds and browns giving the area a striking contrast to the dense vegetation of the area.

Ecological: This high-quality desert habitat in this location is due to the higher elevation and annual snowfall, as such an extremely dense population of Joshua Tree (*Yucca brevifolia*), and Mojave Yucca (*Yucca schidigera*). Numerous springs within the area supports desert bighorn sheep, deer, mountain lion, and dense bird populations.

Cultural: Over 4,000 years of native America habitation has occurred throughout the area due to the abundance of food, water and shelter.

Mgmt. Plan/Date of Designation– ACEC Plan No. 29, August 1989

Relevance and Importance Criteria: Relevant cultural resources. Halloran Wash contains cultural resources values such as rock art, prehistoric turquoise mines, and encampments.

Goals: Protect a variety of prehistoric cultural resources 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	1,700	0	NA
Preferred Alternative	1,700	1,700	0	0.5%
1	0	1,700	0	0.5%
2	1,700	1,700	0	0.5%
3	1,700	1,700	0	0.5%
4	0	1,700	0	0.5%

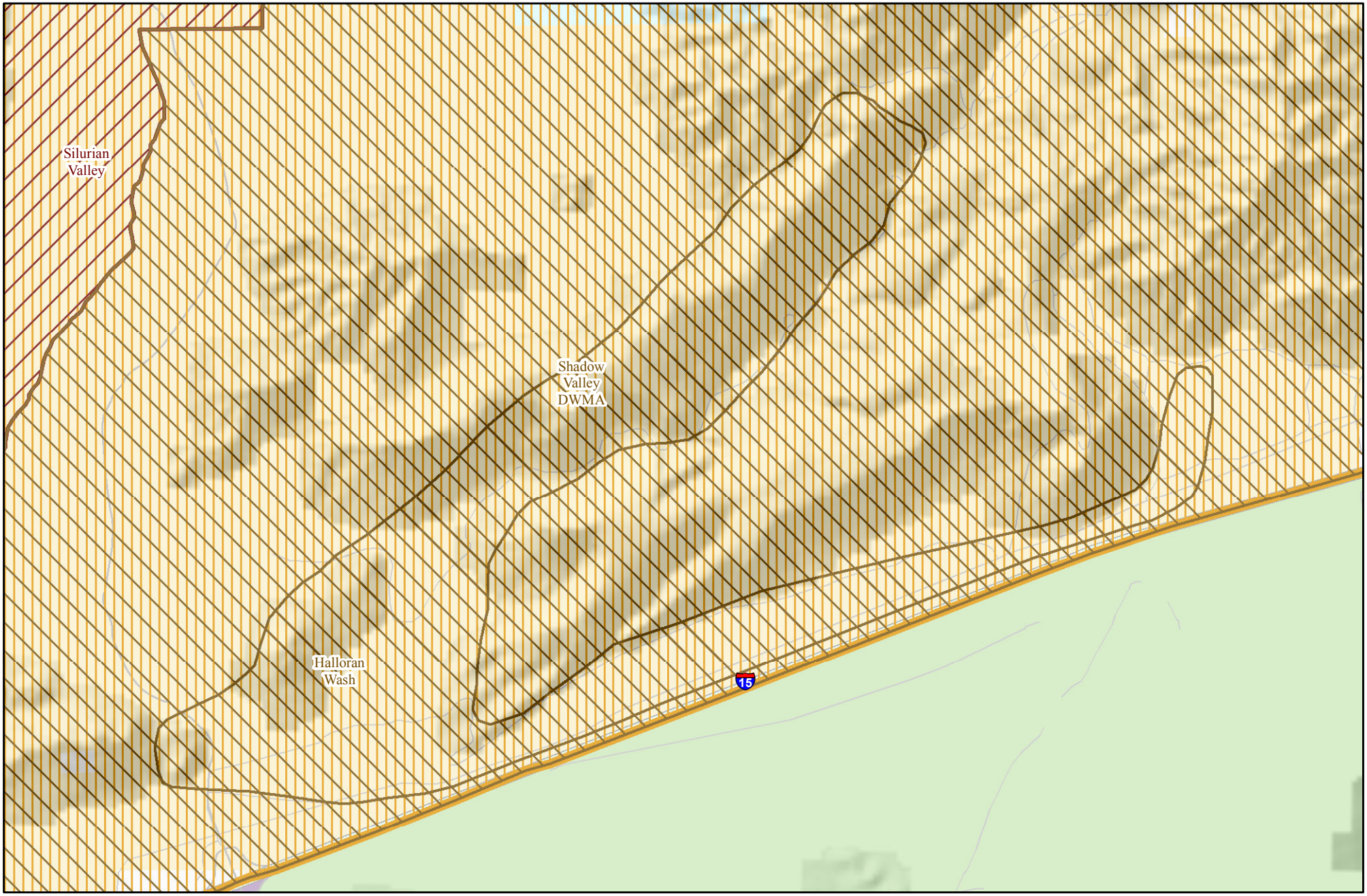
*** Acreage values are for BLM managed lands**

Alternatives :
All Action Alternatives: This ACEC lies entirely within the Shadow Valley ACEC. To resolve this dual designation, all action alternatives will remove the overlap area from Shadow Valley. Management of this ACEC will continue as it is currently being managed.

No Action: This existing ACEC would continue to be managed as it is and the portion that has dual designation would remain.

Objectives (desired future conditions)/Allowable Uses/Management Actions	**Resource**
Objective: Monitoring/Protective Measures Management Action 1: Provide on-going monitoring for cultural resources based on the threat assessment. Objective: Ensure that the Native American concerns are fully considered in all BLM management decisions Management Action 1: Apprise and solicit the comments of indigenous tribal representatives regarding all undertakings within the ACEC Objective: Protect and monitor cultural resources Management Action 1: Increase ranger patrol. Assess nature and extent of visitation, unauthorized use, and condition trends.	Cultural Resources
3 ROWs present: - Gas and electric transmission line - I-15 Limit linear ROWs to designated corridors, Utility Corridor BB incorporates most of the ACEC. Consider other ROW applications if they do not conflict with ACEC values.	Rights of Way
Not an allowable use. Renewable energy development is not compatible with NLCS and ACEC unit values and criteria Geothermal: Area is closed to geothermal leasing and development	Renewable Energy
The area is open to entry for locatable minerals, with a Plan of Operation. Saleable and leasable minerals would be considered if proposals do not impact ACEC values.	Locatable Minerals Mineral Materials Non-energy Leasables

Halloran Wash



0.75 Miles

1 Kilometers

N

Preferred Alternative ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
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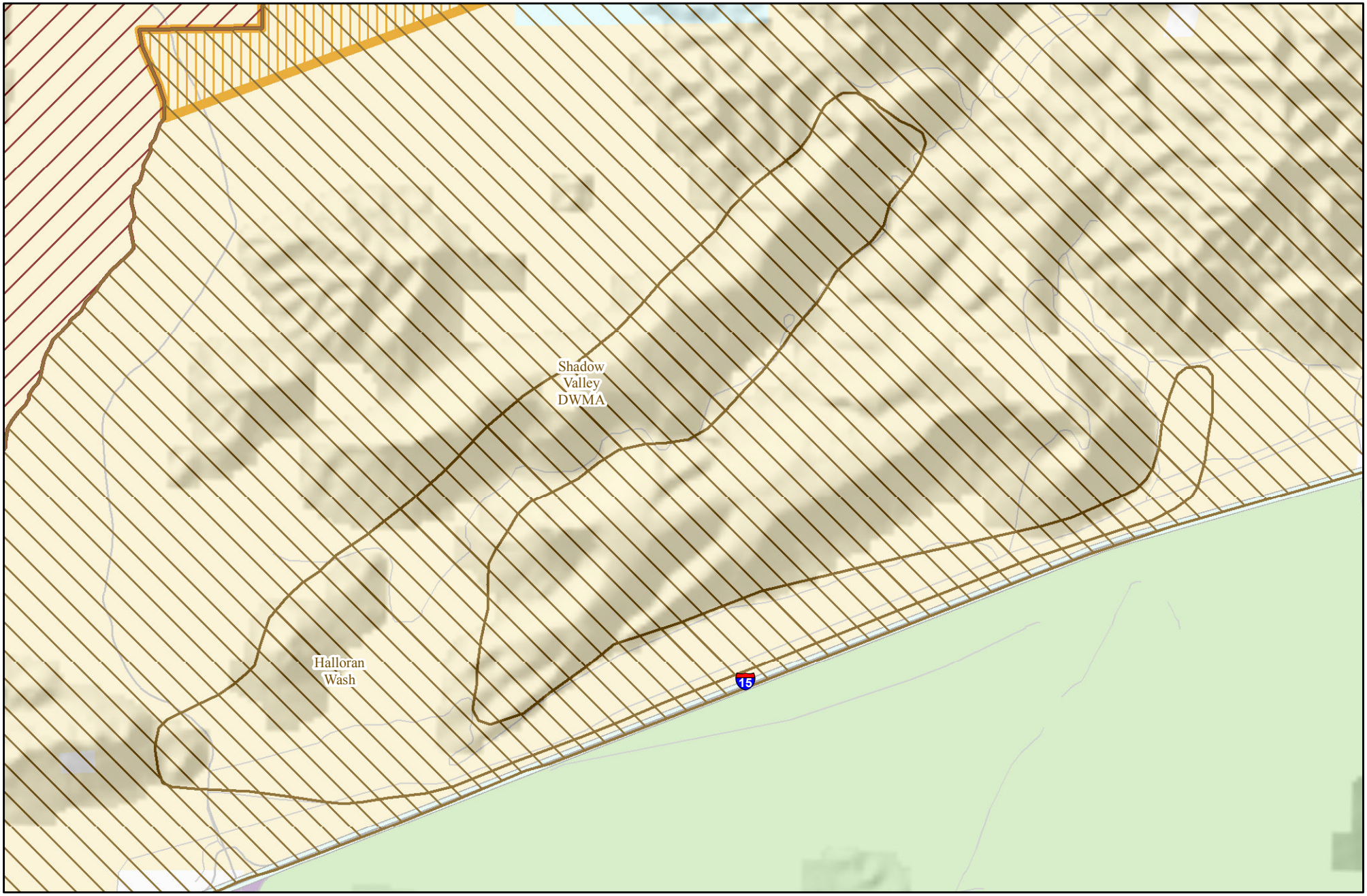
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Halloran Wash



0.75 Miles

1 Kilometers

N

Alternative 1 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

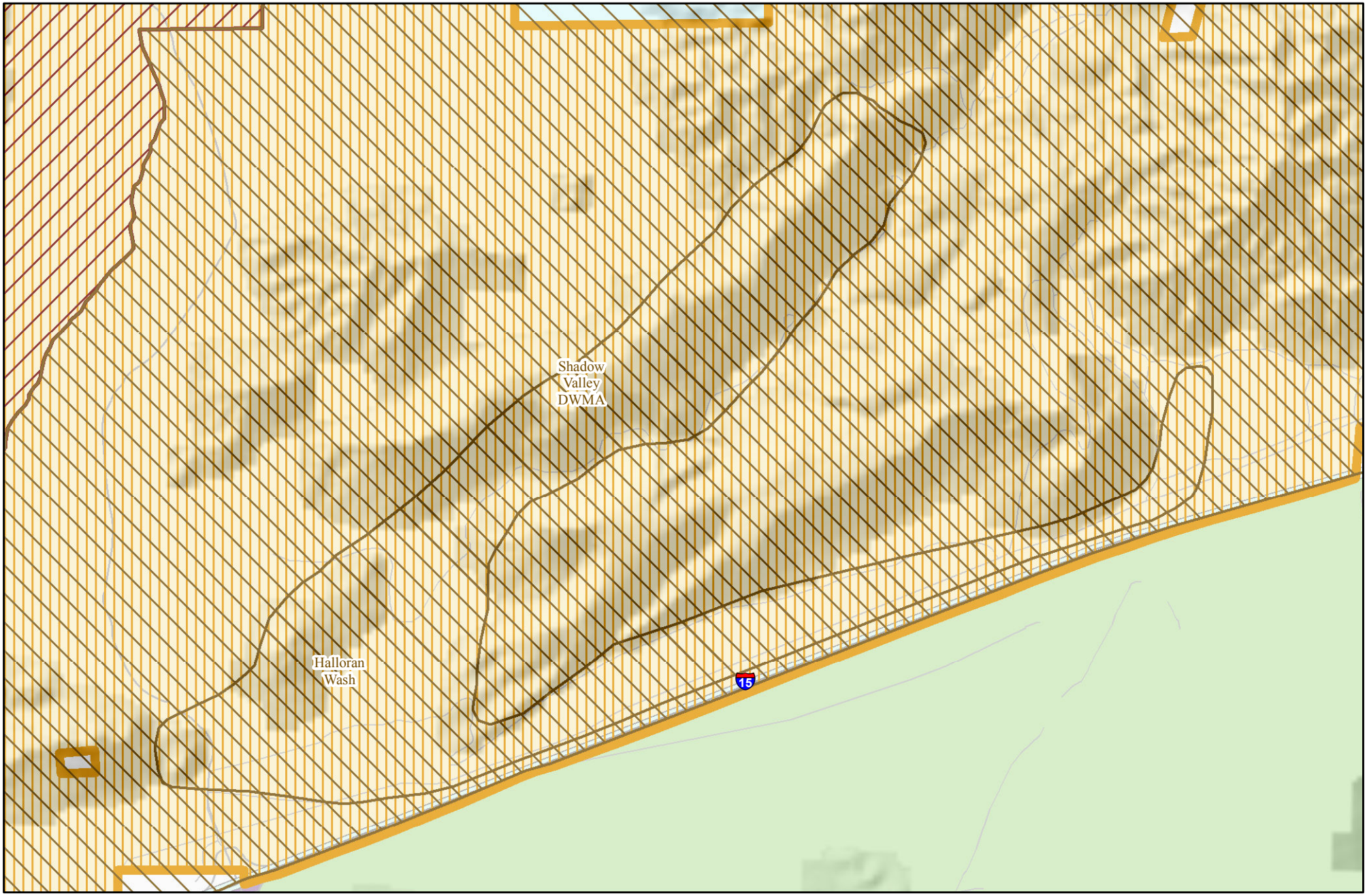
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Halloran Wash



0.75 Miles

1 Kilometers

N

Alternative 2 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

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- State
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GTLF

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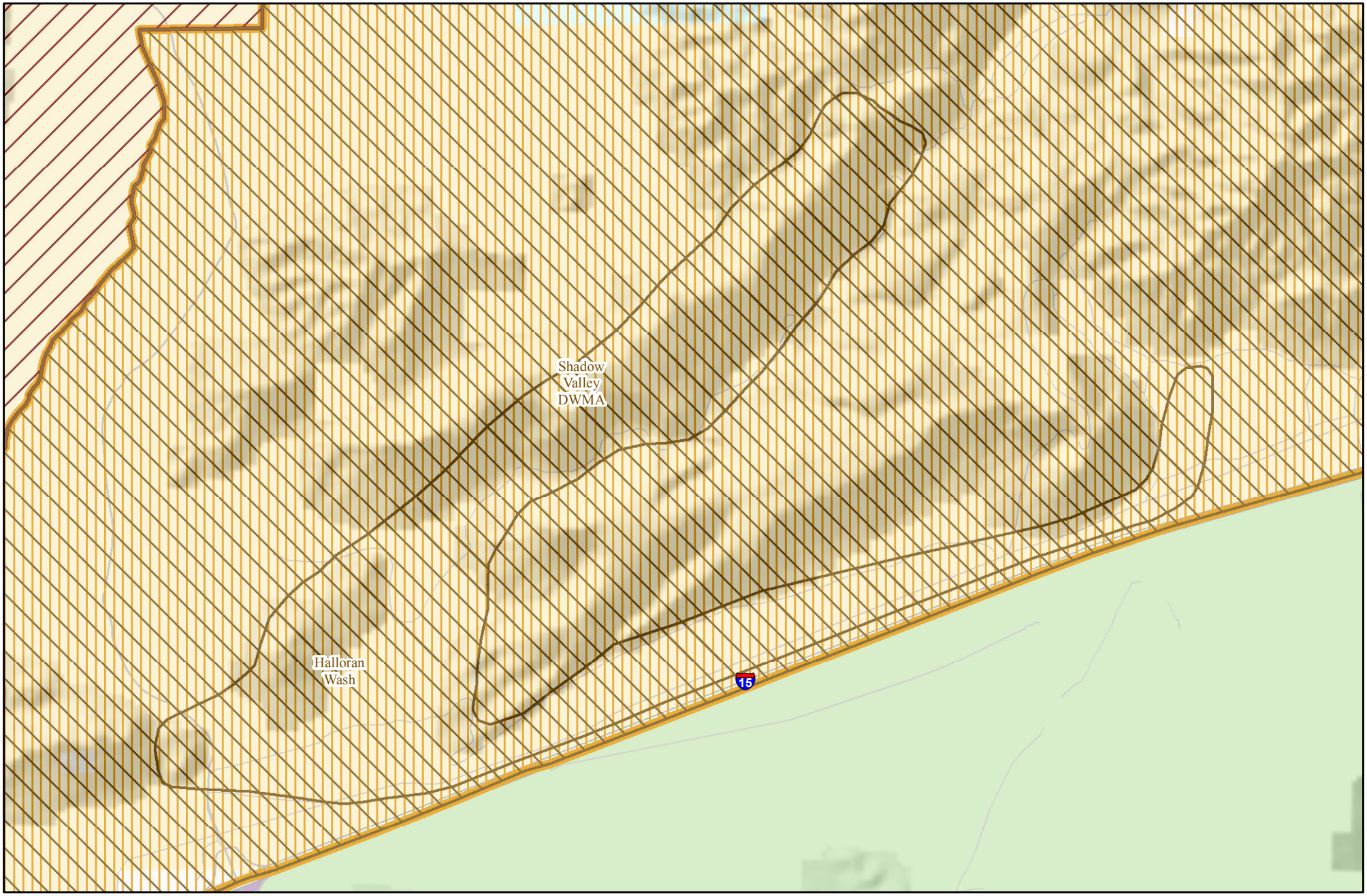
- County Hwy

Halloran Wash



0.75 Miles

1 Kilometers

N

Alternative 3 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

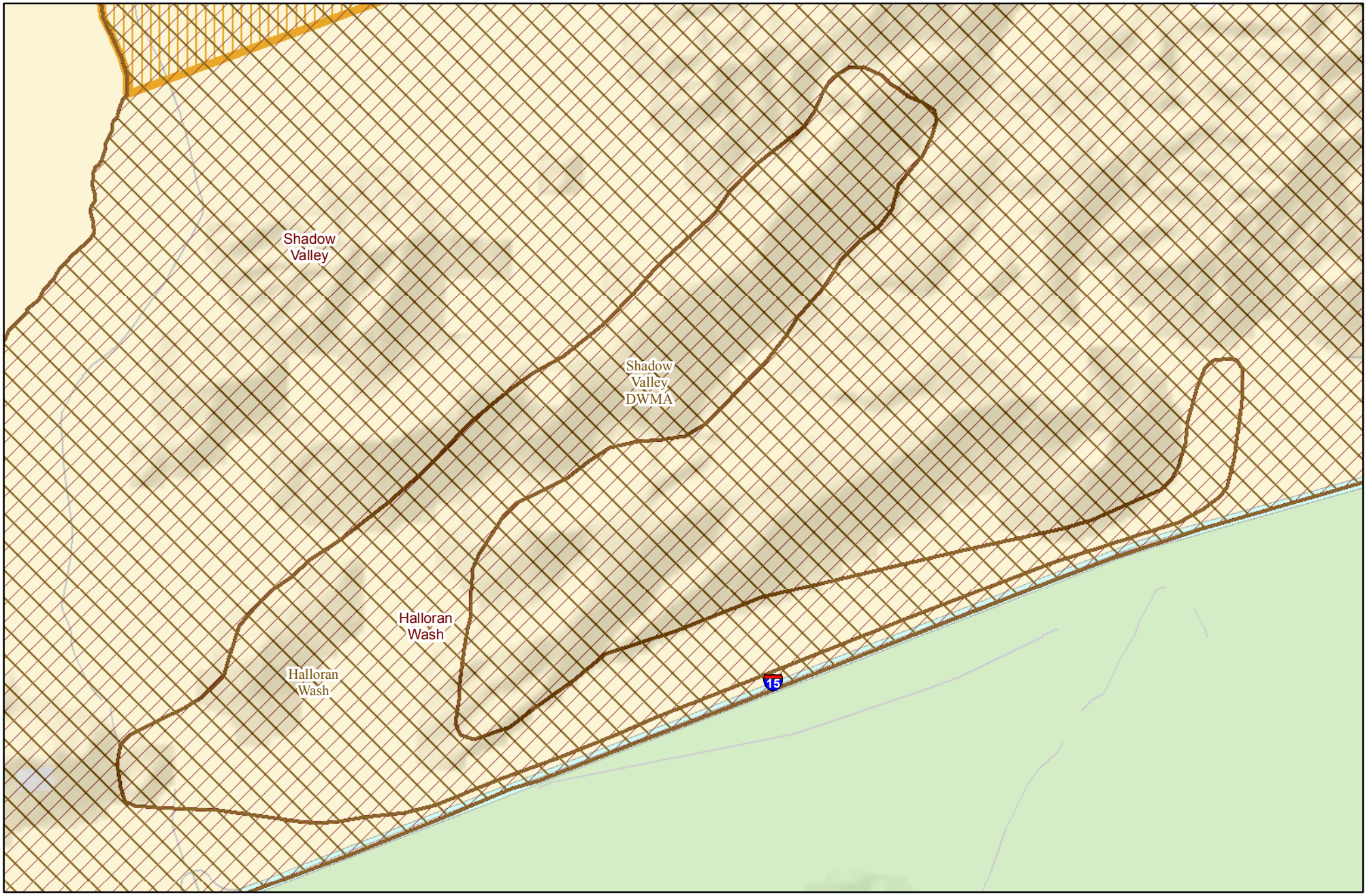
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Halloran Wash



0.7 Miles

0.95 Kilometers

N

Alternative 4 ACECs

Date Printed: 8/6/2014

Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed NLCS
- Proposed ACEC
- Proposed Wildlife Allocation
- Legislatively and Legally Protected
- Design Focus Areas
- Variance Lands
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
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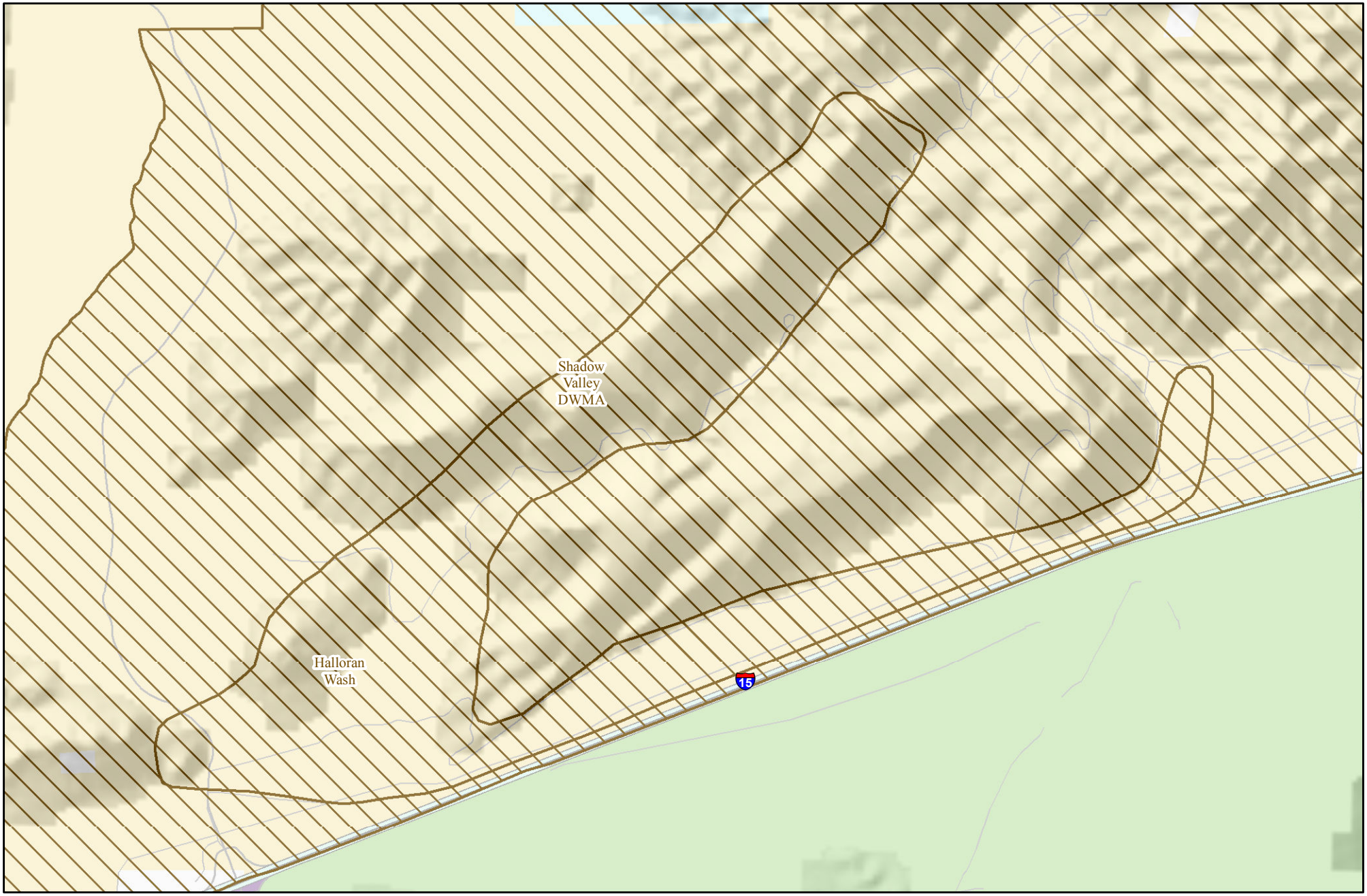
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Halloran Wash



0.75 Miles

1 Kilometers

N

No Action ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- OHV Areas
- Legislatively and Legally Protected
- Cities
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Ivanpah

Description/Location: Located within the Ivanpah Valley, east of the Mojave National Preserve, southwest of the California-Nevada border. The original ACEC was bounded on the northwest by Interstate 15. The expanded boundary encompasses areas north of Interstate 15 and is bounded on the north and west by Mojave National Preserve Clark Mountain Unit with the eastern boundary remains the California-Nevada border. Two sections of the Clark Mountain ACEC will be added to the Ivanpah Expansion Area.

Nationally Significant Values:
The Ivanpah valley is a dry lake valley with Creosote shrub dominating the landscape. It is a highly rich ecosystem with a high density of Desert tortoise (*Gopherus agassizii*) The 2002 Northern and Eastern Mojave Desert plan designated the original Ivanpah Valley Tortoise Management Area which provides Desert tortoise habitat and encompassed designated desert tortoise critical habitat. This area provides critical tortoise habitat linkage between the Mojave National Preserve and land managed by the Las Vegas BLM Field Office.

Ecological: The area provide habitat and supports important populations of several BLM sensitive plants, including San Bernardino milk-vetch (*Astragalus bernardinus*), polished blazing star (*Mentzelia polita*), and Rusby's desert-mallow (*Sphaeralcea rusbyi var. eremicola*). The area provided habitat and supports regionally important populations of desert bighorn sheep, desert tortoise, American badger, and Bendire's thrasher.

Cultural: The shoreline of Ivanpah Dry Lake was heavily used by native American tribes and contains extensive evidence of prehistoric aboriginal occupation spanning over a period of 4000 years.

Mgmt. Plan/Date of Original Designation– NEMO Plan Amendment 2002

Relevance and Importance Criteria: Relevant biological resources. It is a highly rich ecosystem with a high density of Desert tortoise (*Gopherus agassizii*). The area provides Desert tortoise habitat and encompassed designated desert tortoise critical habitat. This area provides critical tortoise habitat linkage between the Mojave National Preserve and land managed by the Las Vegas BLM Field Office. Additionally, the area provide habitat and supports important populations of several BLM sensitive plants, including San Bernardino milk-vetch (*Astragalus bernardinus*), polished blazing star (*Mentzelia polita*), and Rusby's desert-mallow (*Sphaeralcea rusbyi var. eremicola*). The area provided habitat and supports regionally important populations of desert bighorn sheep, American badger, and Bendire's thrasher.

Goals: Protect biological values, including habitat quality, populations of sensitive species, and landscape connectivity while providing for compatible public uses. Provide protection and special management attention for sensitive cultural resources that will enhance their status and condition while providing for uses that are compatible with the protection and enhancement of sensitive resources. Manage area in accordance with the Desert Tortoise Recovery Plan.

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	35,000	0	NA
Preferred Alternative	32,400	91,300	0	0.1%
1	0	91,300	0	0.1%
2	91,300	91,300	0	0.1%
3	34,968	88,947	0	0.1%
4	34,000	91,000	0	0.1%

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

Alternatives:

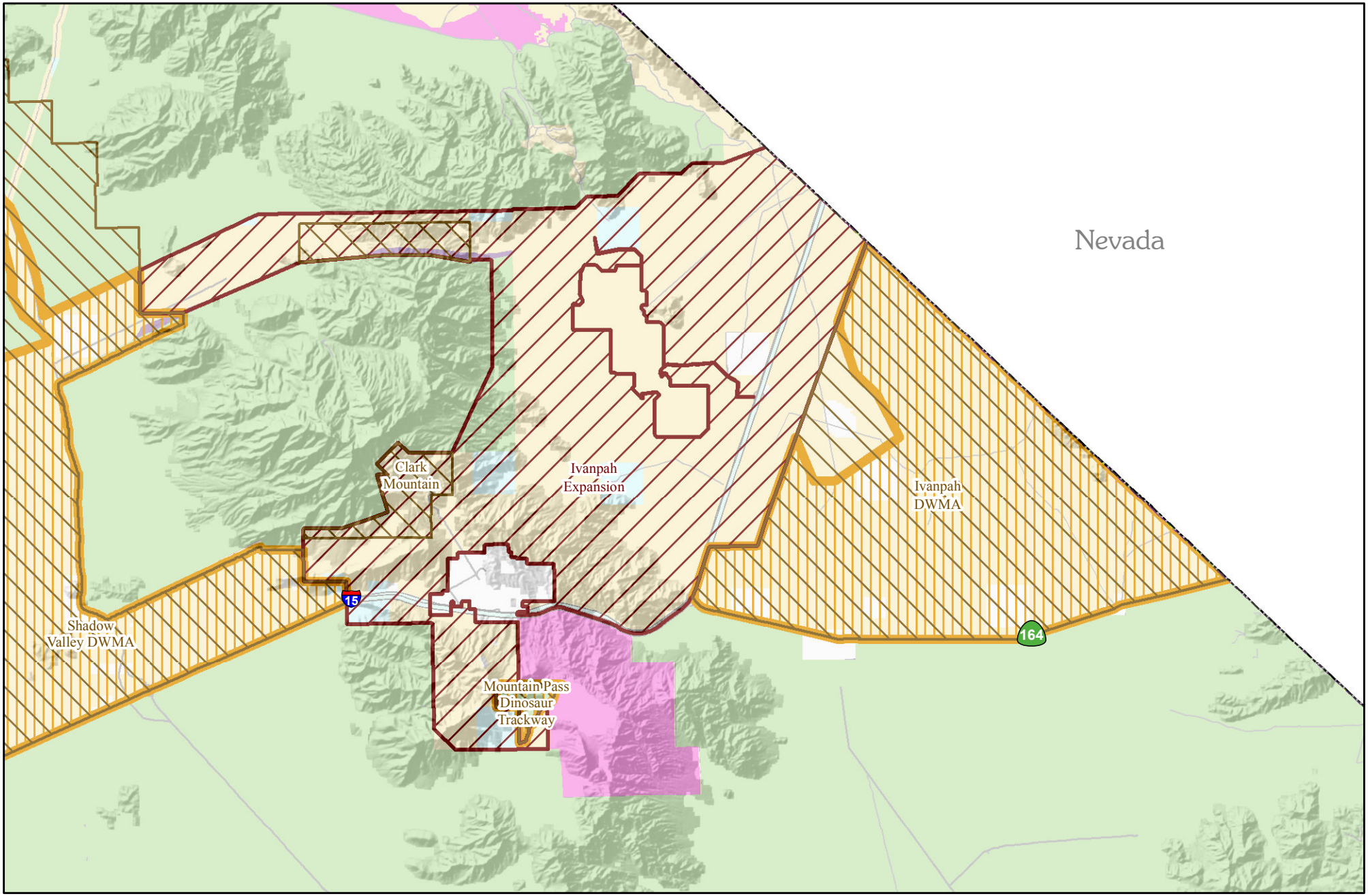
All Action Alternatives – The unit will be managed as it has been, but several boundary adjustments will occur. There are differences in size and location between alternatives (see table above and maps that follow). The Ivanpah SRMA encompassing dry lake bed and shoreline will be excluded from ACEC, the ACEC will be expanded across Interstate 15. In the expanded area, the ISEGS Solar Project, the Stateline Solar project, and CalTrans Joint Point of Entry are excluded from this designation. The expansion will include the two units of Clark Mountain ACEC that remain under BLM administration. The Clark Mountain designation will be removed and these areas will be incorporated in the Ivanpah ACEC.

No Action - Under the no action alternative, the ACEC would not be expanded, the dry lake bed would not be excluded, and management focus would be for the benefit of the desert tortoise.

Objectives (desired future conditions)/Allowable Uses/Management Actions	**Resource**
Rare Plants: Small-flowered androstephium (*Androstephium breviflorum*) [CNPS 2.2] Borrego milk-vetch (*Astragalus lentiginosus* var. *borreganus*) [CNPS 4.3] Harwood's eriastrum (*Eriastrum harwoodii*) [CNPS 1B.2] – BLM Sensitive Species Parish's club-cholla (*Grusonia parishii*) [CNPS 2.2] Sky-blue phacelia (*Phacelia coerulea*)[CNPS 2.3] Goodding's phacelia (*Phacelia pulchella* var*. gooddingii*) [CNPS 2.2] Objective: Maintain or Improve condition of vegetation Action: Remove invasive plants, rehabilitate/revegetate disturbed areas. Action: Protect populations of special status plants and rare natural communities. Action: Conduct a plant survey of the ACEC	Vegetation (incl. special status species)
Special Status Species: Desert Tortoise Action: Remove invasive plants, rehabilitate/revegetate disturbed areas. Action: Protect populations of special animals, monitor populations	Fish and Wildlife (incl. special status species)

Objective: Manage recreation consistent with established conservation goals, while providing a broad range of recreation opportunities, and to ensure public health and safety; Management Action 1: Provide interpretive, directional, and regulatory signs and materials as necessary to provide public information and reduce impacts from recreational use. Management Action 2: Only allow SRP events which do not negatively affect DWMA Relevance and Importance Values. Management Action 3: Develop a management plan for Clark Mountain Campground. Management Action 4: Prohibit the cutting of firewood and burning of down and dead vegetation at the Clark Mountain Campground.	Recreation
Objective: Maintain intact landscape Management Action: Acquire all inholdings from willing sellers	Land Tenure
Objective: Maintain intact landscape Management Action: Linear Right of Ways that cannot be aligned to avoid the ACEC will not be allowed. Site Right of Ways should be consistent with or not impinge upon the purpose of the ACEC.	Rights of Way
Not an allowable use. Renewable energy development is not compatible with NLCS and ACEC unit values and criteria Geothermal: Area is closed to geothermal leasing and development	Renewable Energy
Open to mineral entry w/ stipulations.	Locatable Minerals Mineral Materials Non-energy Leasables
Objective: Protect sensitive resources from grazing impacts Management Action: Retire Clark Mountain Allotment is now vacant, upon voluntary relinquishment	Livestock grazing

Ivanpah



4.5 Miles

6 Kilometers

N

Preferred Alternative ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

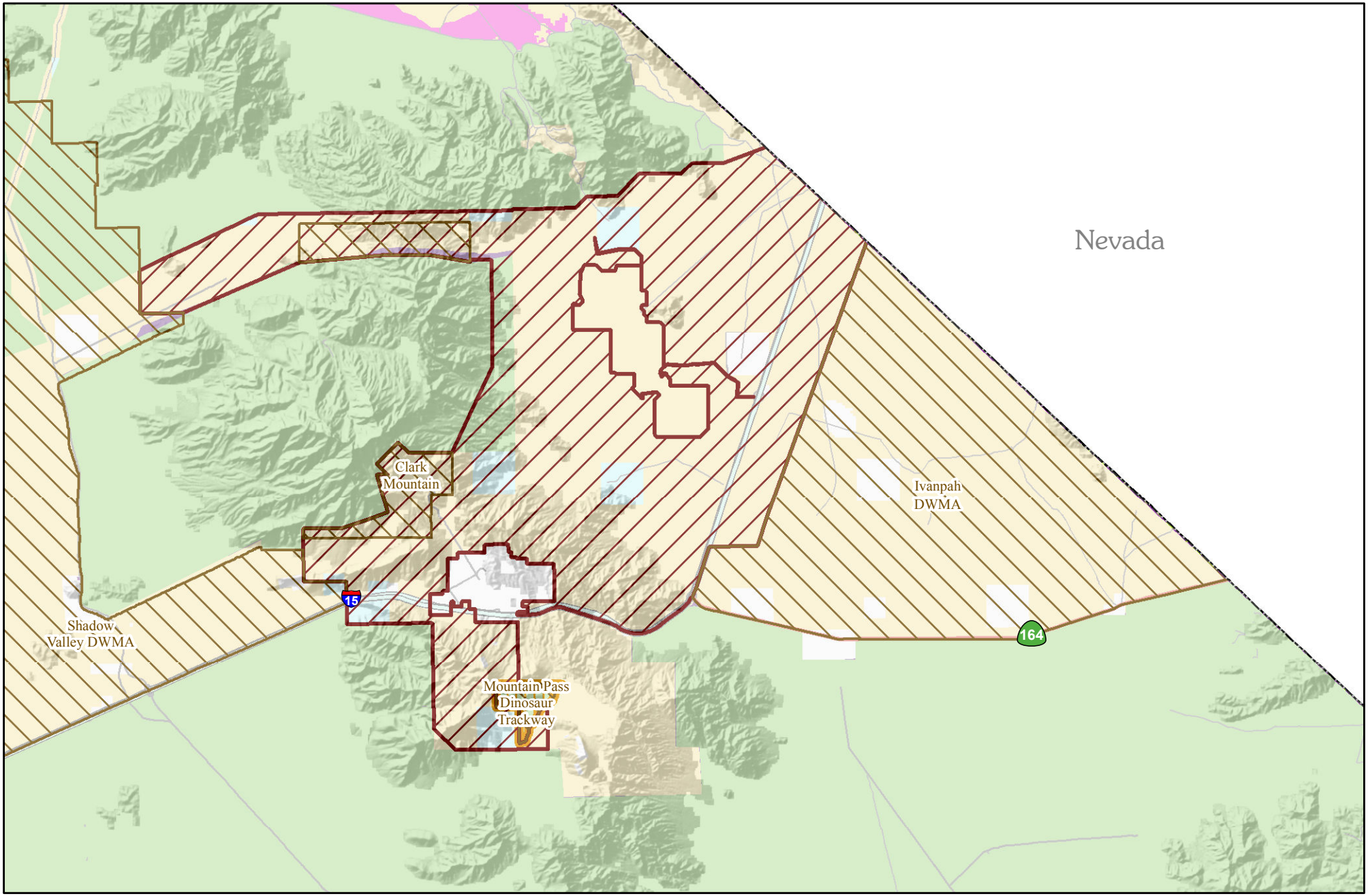
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Ivanpah



4.5 Miles

6 Kilometers

N

Alternative 1 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
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Land Status

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GTLF

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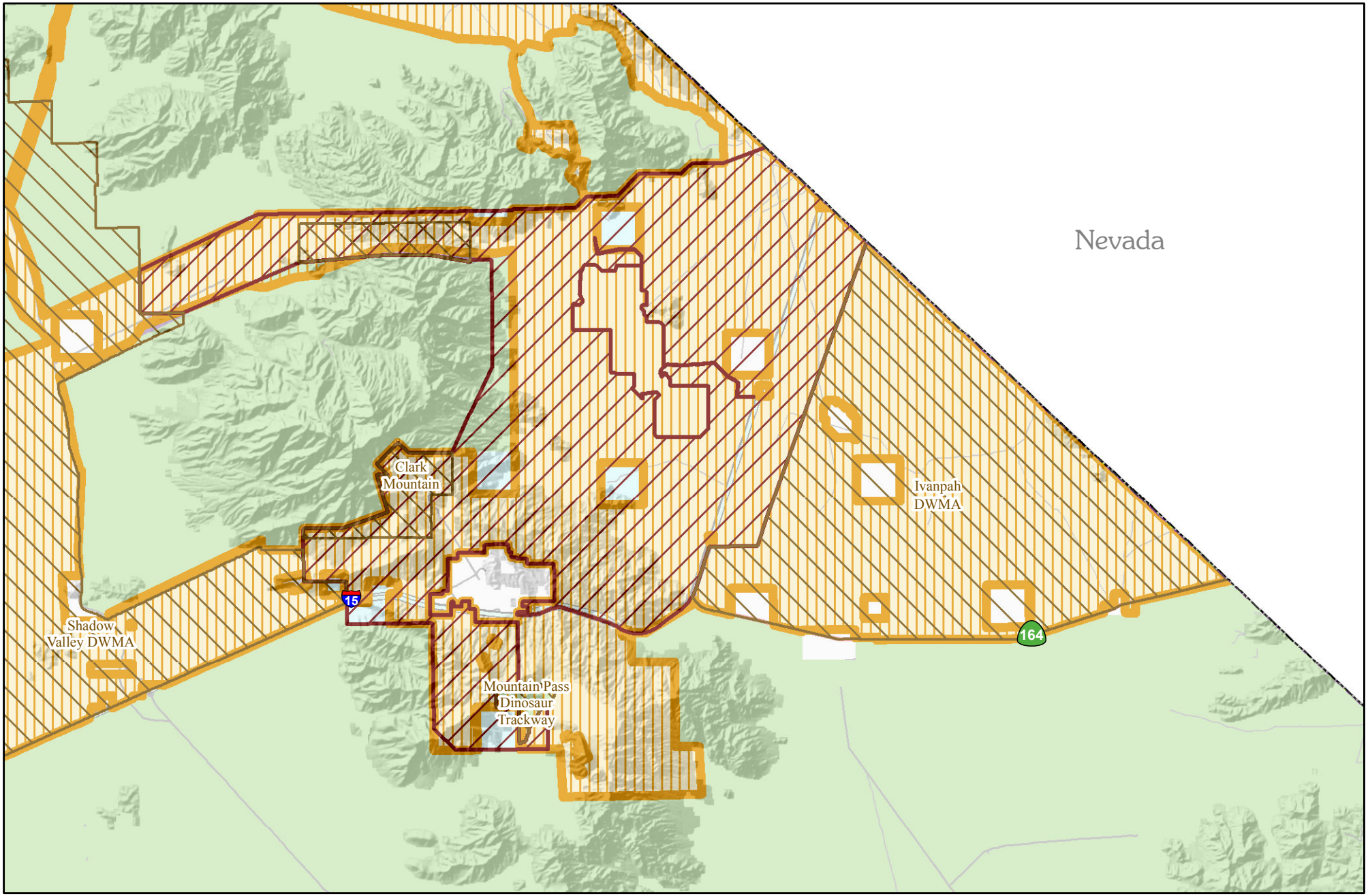
- CA Hwy
- County Hwy

Ivanpah



4.5 Miles

6 Kilometers

N

Alternative 2 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
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- BLM Field Office

Land Status

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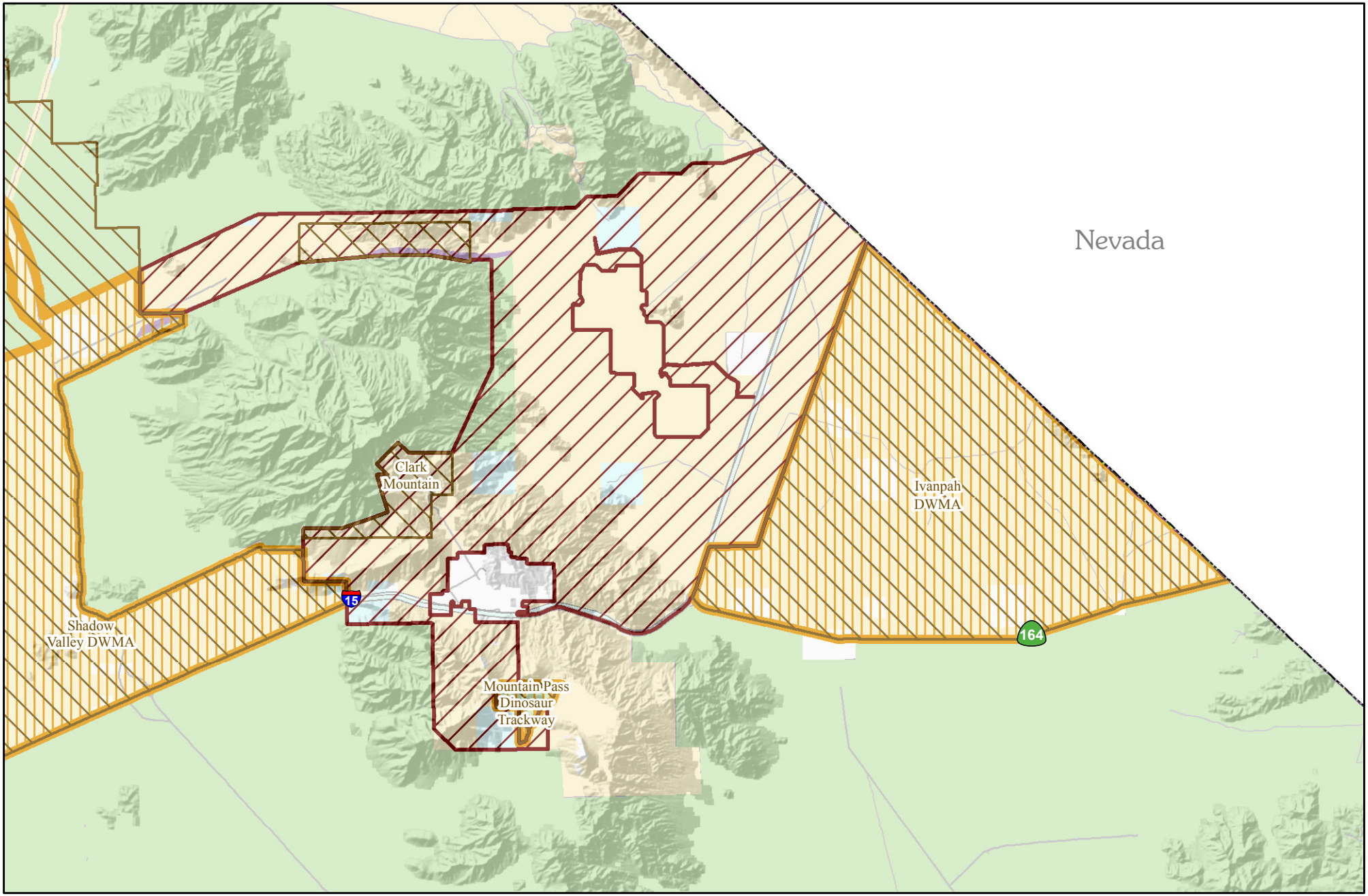
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Ivanpah



4.5 Miles

6 Kilometers

N

Alternative 3 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

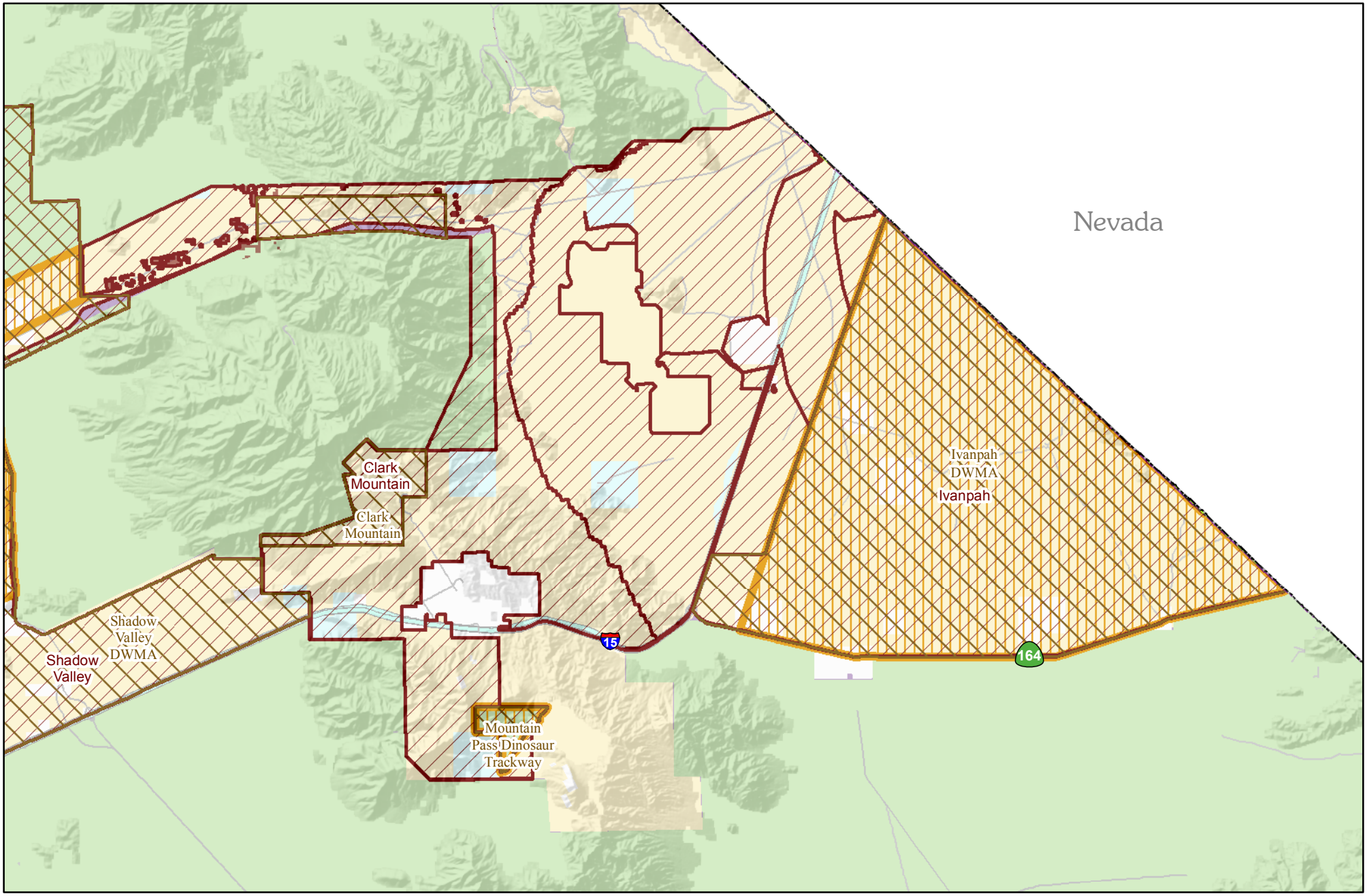
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Ivanpah



4 Miles

5.5 Kilometers

N

Alternative 4 ACECs

Date Printed: 8/6/2014

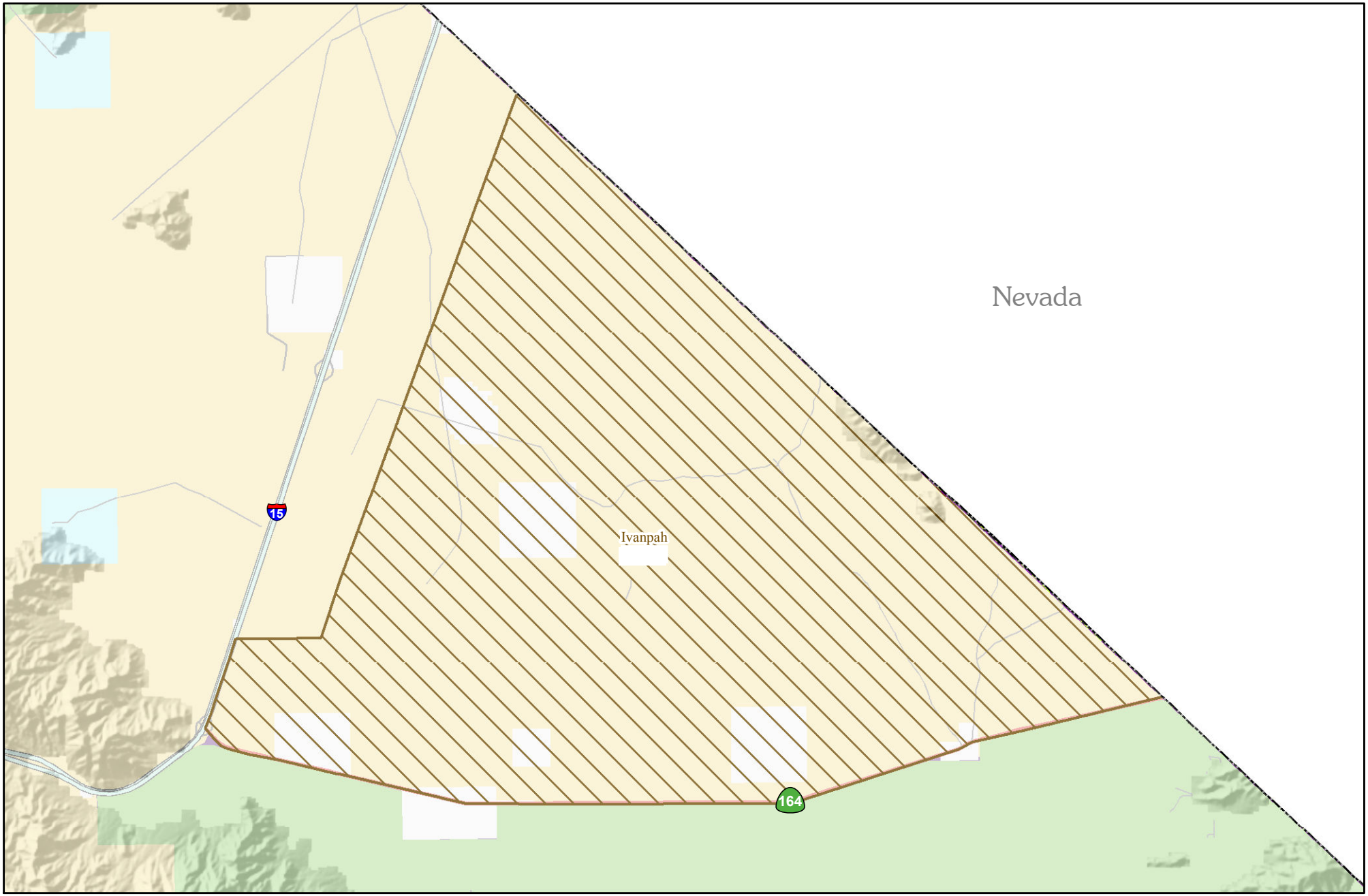
Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed NLCS
- Proposed ACEC
- Proposed Wildlife Allocation
- Legislatively and Legally Protected
- Design Focus Areas
- Variance Lands
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Ivanpah



2.5 Miles

3.5 Kilometers

N

No Action ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- OHV Areas
- Legislatively and Legally Protected
- Cities
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Kingston Range

Description/Location: Located in northeast San Bernardino County and southeast Inyo County in a broad zone of transition between the Mojave and Great Basin deserts.

Nationally Significant Values:
Ecological: Provides important connectivity between large habitat blocks surrounding the unit. Maintains intact landscape by connecting several large wilderness areas.

Special Designations/Management Plan/Date: ACEC Plan No. 14, January 1991

Relevance and Importance Criteria: Relevant scenic, wildlife and botanical resource values. Encompasses habitat for many sensitive plant and wildlife species.

Goals: Continue multiple use management while recognizing that the Natural Area was designated in the CDCA Plan as an ACEC for the preservation and enhancement of habitat for unusual plants and bighorn sheep and two areas within the ACEC were also designated at Unique Plant Assemblages(UPA).

For NLCS Lands: Where this ruleset differs from the plan-wide NLCS rulesets, the more restrictive rules will apply.

Designation and Acreage by Alternative:

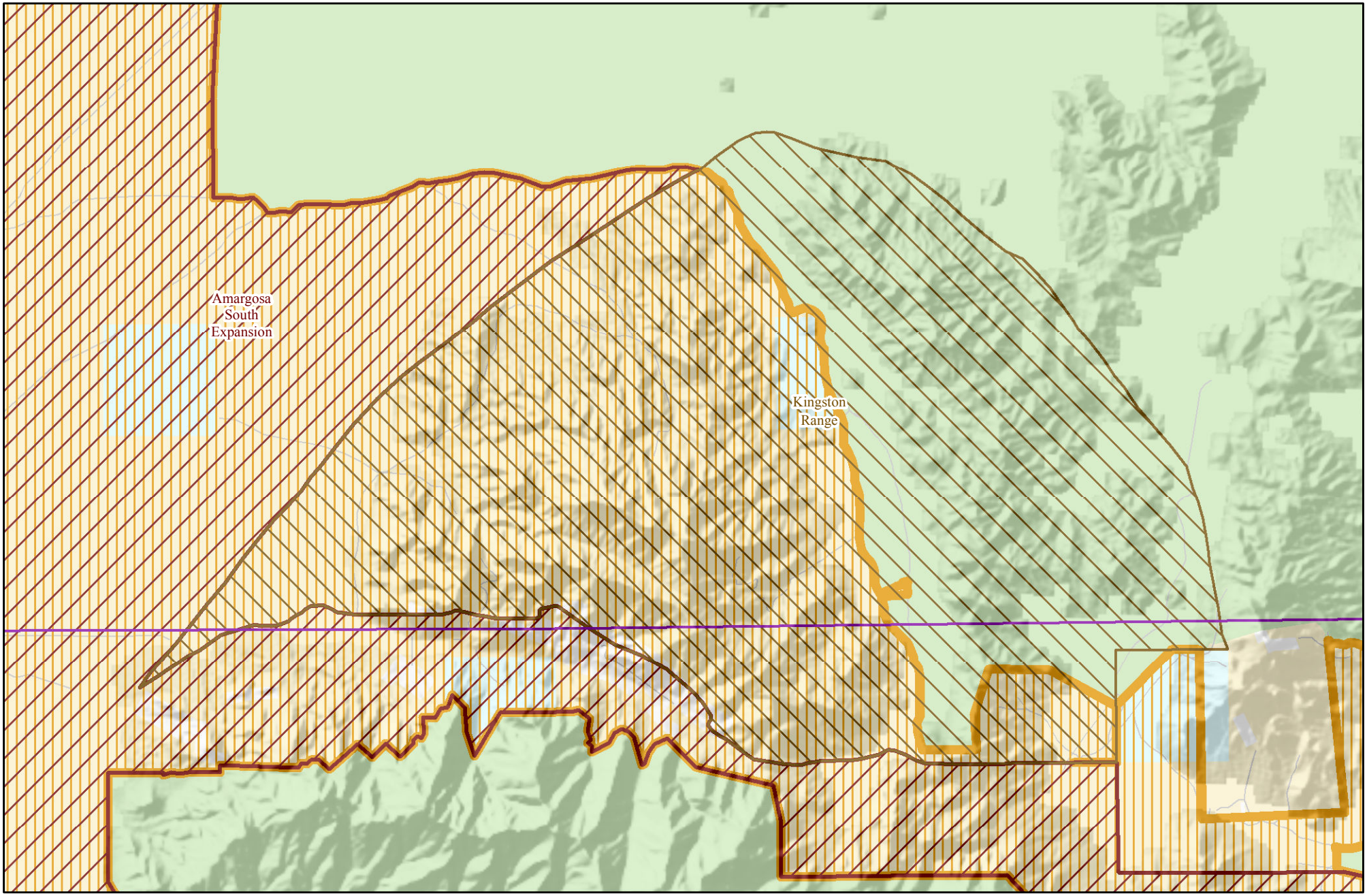
Alternative	BLM Acres of NLCS within ACEC or Wildlife Allocation	BLM Acres within ACEC	BLM Acres within Wildlife Allocation	ACEC Disturbance Cap
No Action	0	18,900	0	NA
Preferred Alternative	11,300	18,900	0	1%
1	9,800	18,900	0	1%
2	11,300	18,900	0	1%
3	11,300	18,900	0	1%
4	11,300	18,900	0	1%

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

Alternatives:
All Alternatives – this existing ACEC would continue to be managed as it currently is.

Objectives (desired future conditions)/Allowable Uses/Management Actions	**Resource**
Objective: Manage for the protection of sensitive plant species Special Status Species: - Forked buckwheat - Death Valley beard-tongue - Stephen's beard-tongue (*Penstemon stephensii*) - Scaly sand plant - Kingston Mtn. cinquefoil - Giant Nolina - Mormon Needlegrass (*Stipa arida*) - Kingston Mountains bedstraw *alium hilendiae ssp. kingstonense*) - Hairy Erioneuron (*Erioneuron pilosum*) Management Action #1: Survey for BLM special status plant species, identify current occupied and potential habitat, identify and implement actions to conserve and improve habitat conditions Management Action#2: Protect natural communities listed by the state as rare.	Vegetation - Including special status species
Objective: Manage for the protection of sensitive wildlife species Special Status Species: Desert bighorn sheep (*Ovis canadensis nelsonii*) - Desert tortoise - Banded gila monster - Golden eagle - Kingston Mountain chipmunk (*Tamias panamintinus acrus*) - Mountain Lion Management Action: Survey for BLM sensitive species, identify current occupied and potential habitat, identify and implement actions to conserve and improve habitat conditions Objective: Expand year-long desert bighorn sheep range into the Natural Area through positive management Management Action: Build guzzler and protect from livestock	Fish and Wildlife - Including special status species

Kingston Range



1.5 Miles

2 Kilometers

N

Preferred Alternative ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

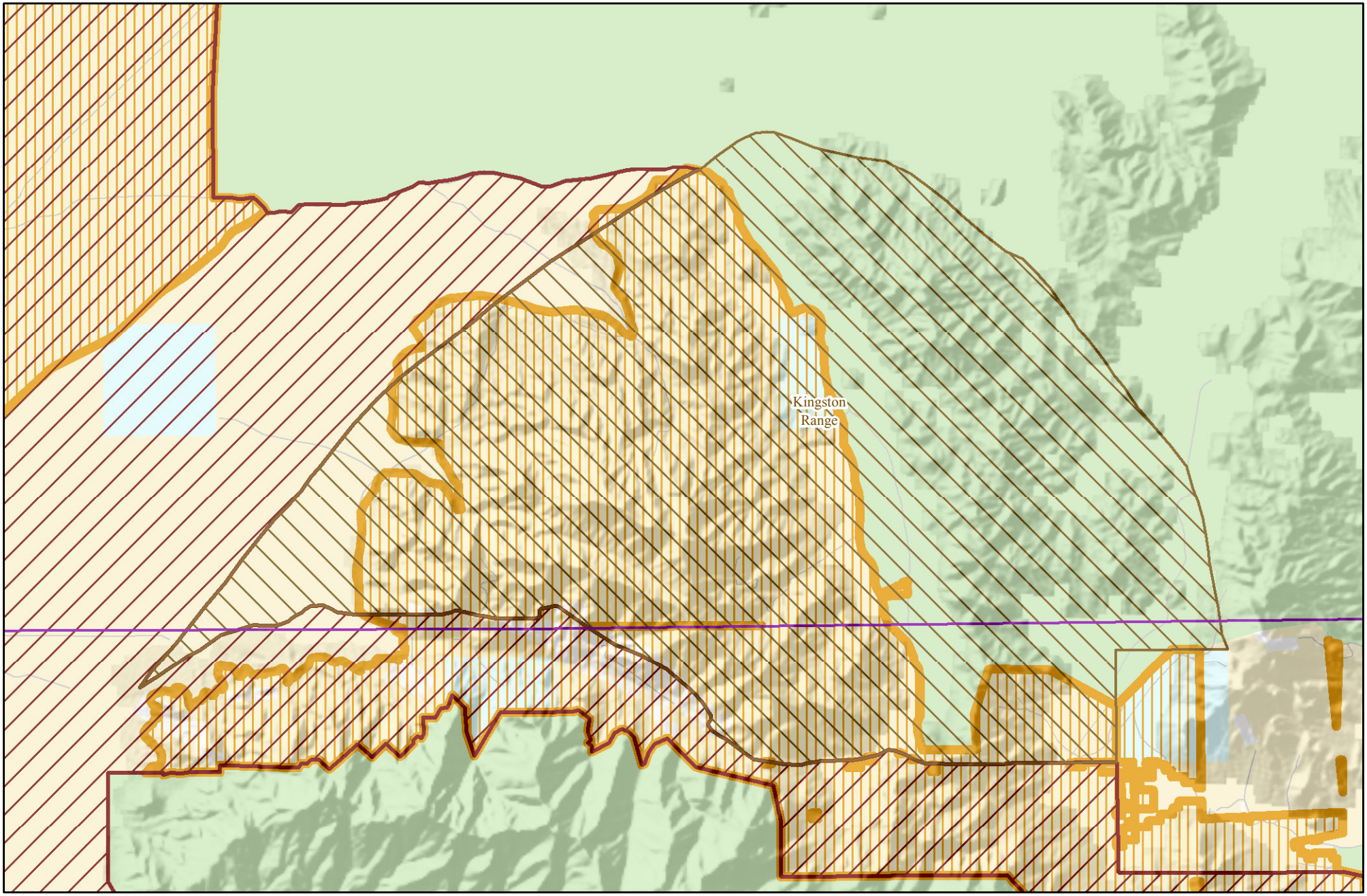
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Kingston Range



1.5 Miles

2 Kilometers

N

Alternative 1 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
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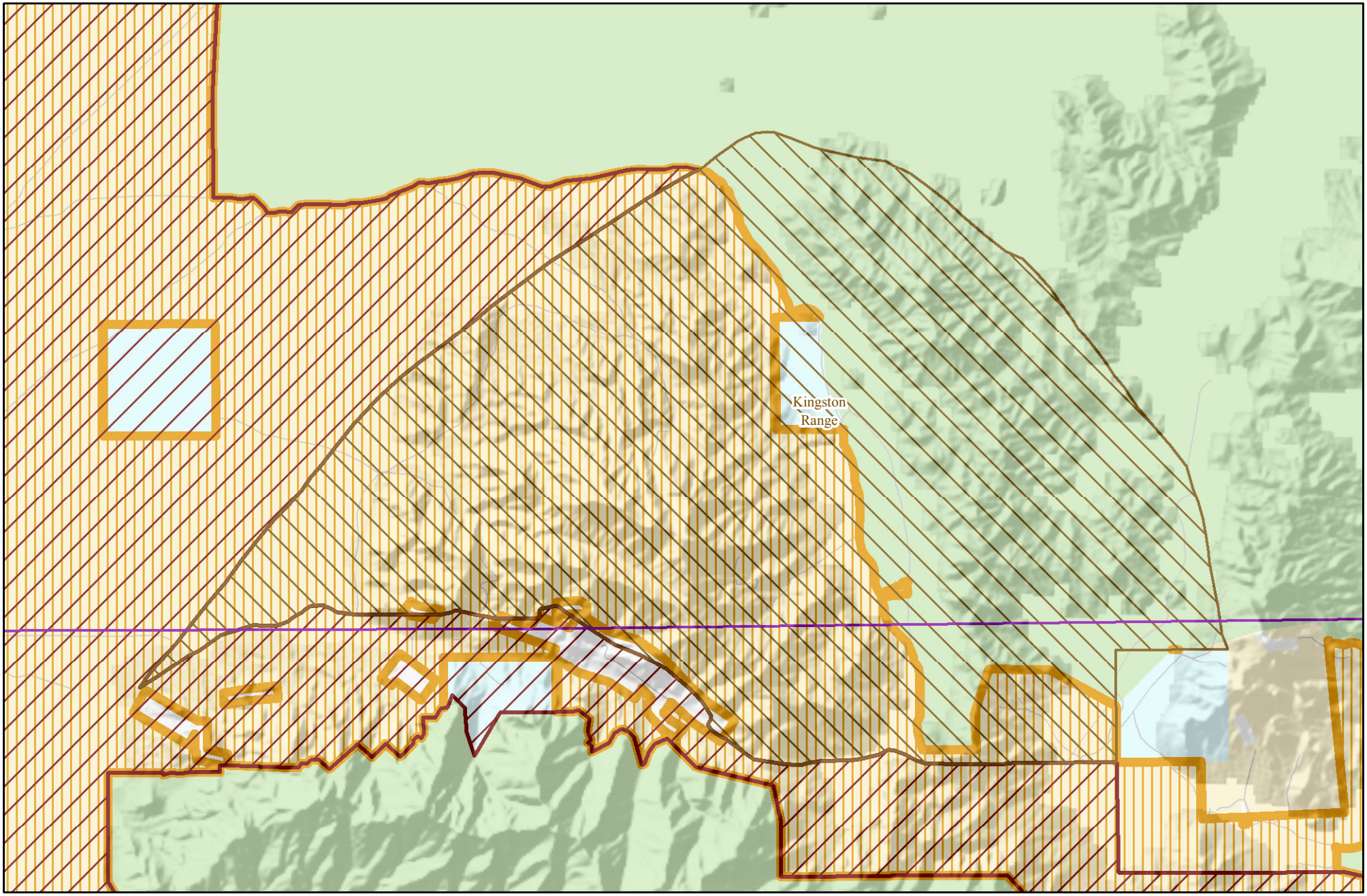
Kingston Range



1.5 Miles

2 Kilometers

N

Alternative 2 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

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GTLF

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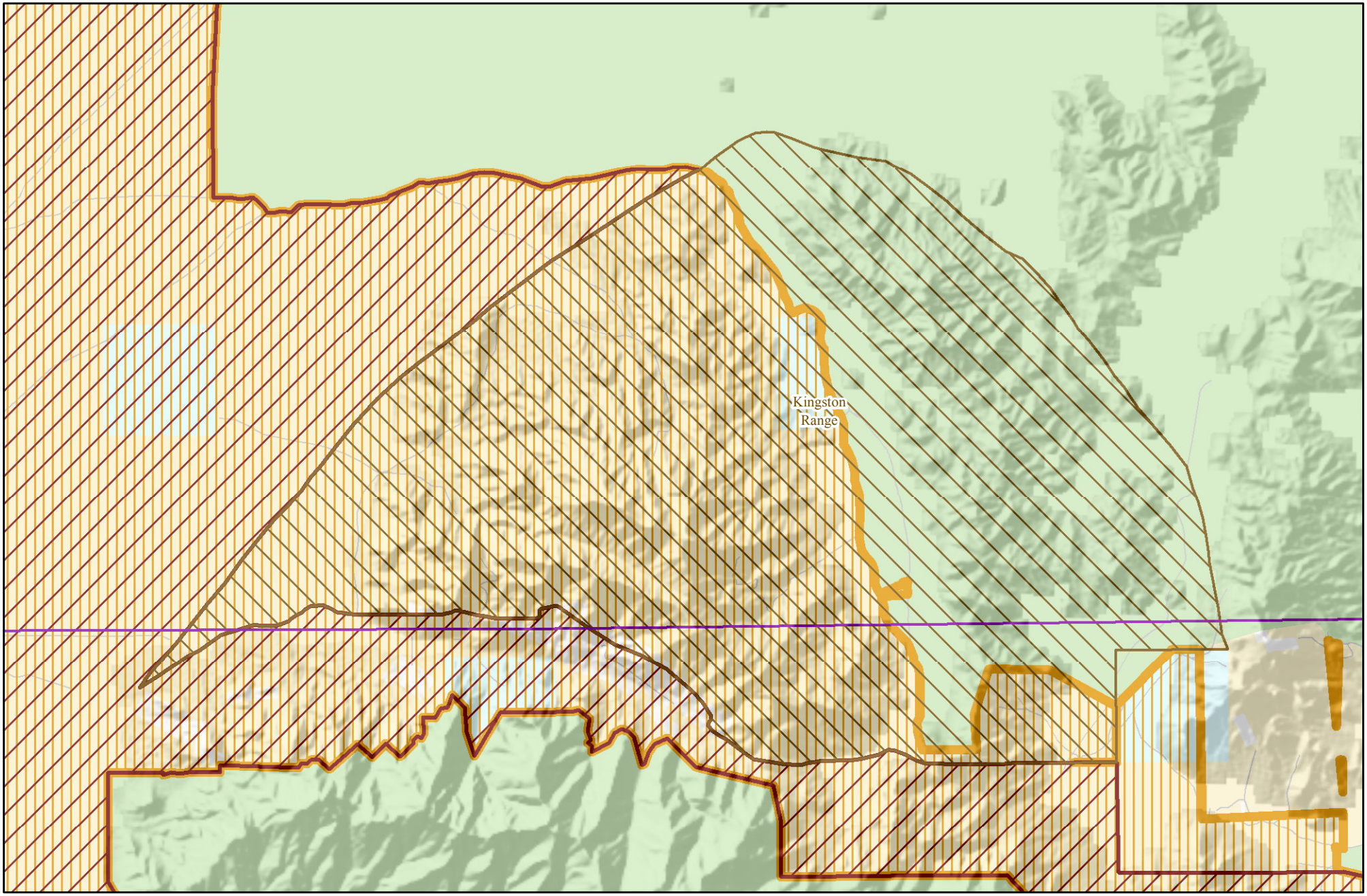
- County Hwy

Kingston Range



1.5 Miles

2 Kilometers

N

Alternative 3 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
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- DRECP Boundary
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Land Status

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GTLF

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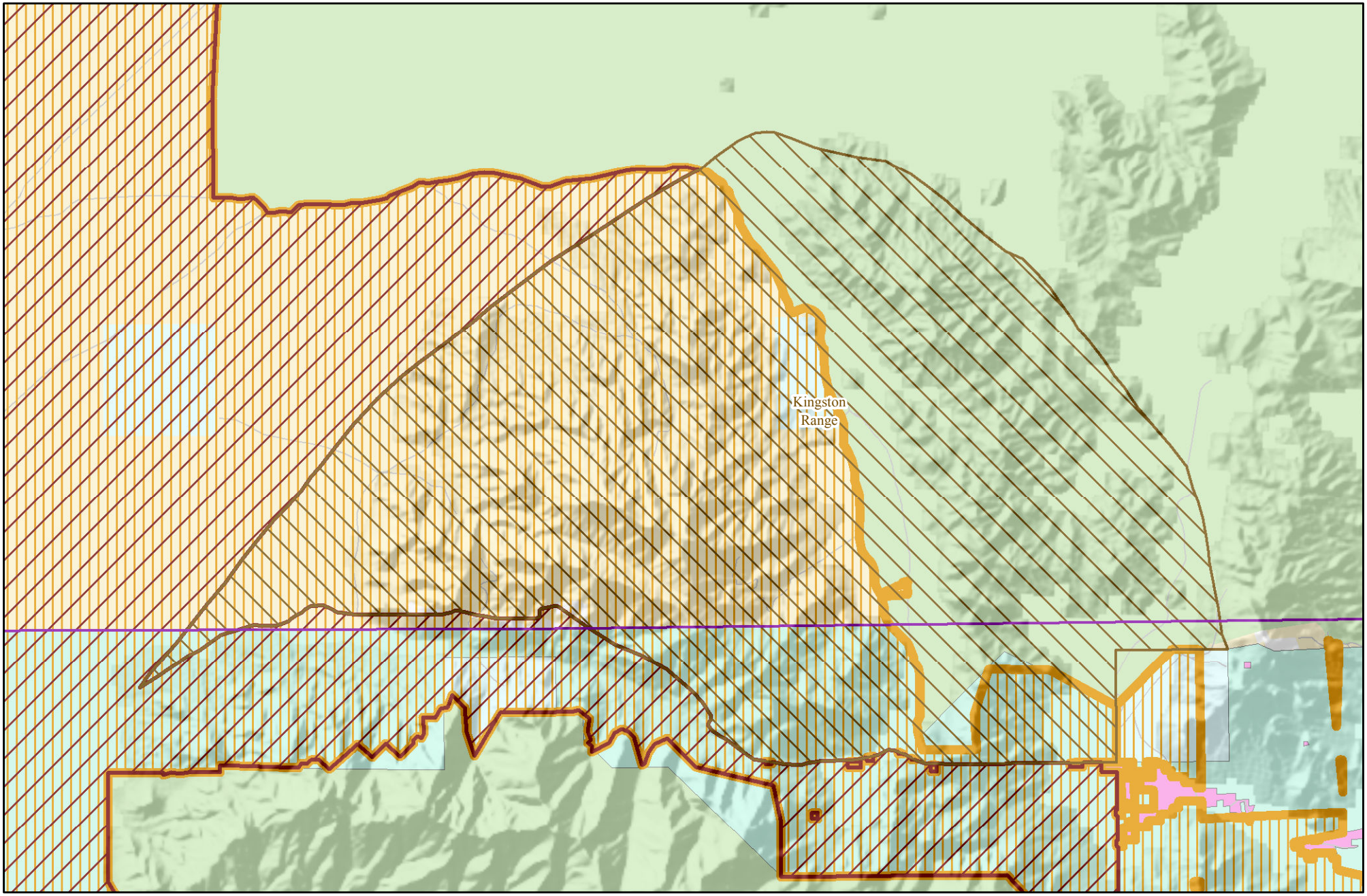
- County Hwy

Kingston Range



1.5 Miles

2 Kilometers

N

Alternative 4 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
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Land Status

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GTLF

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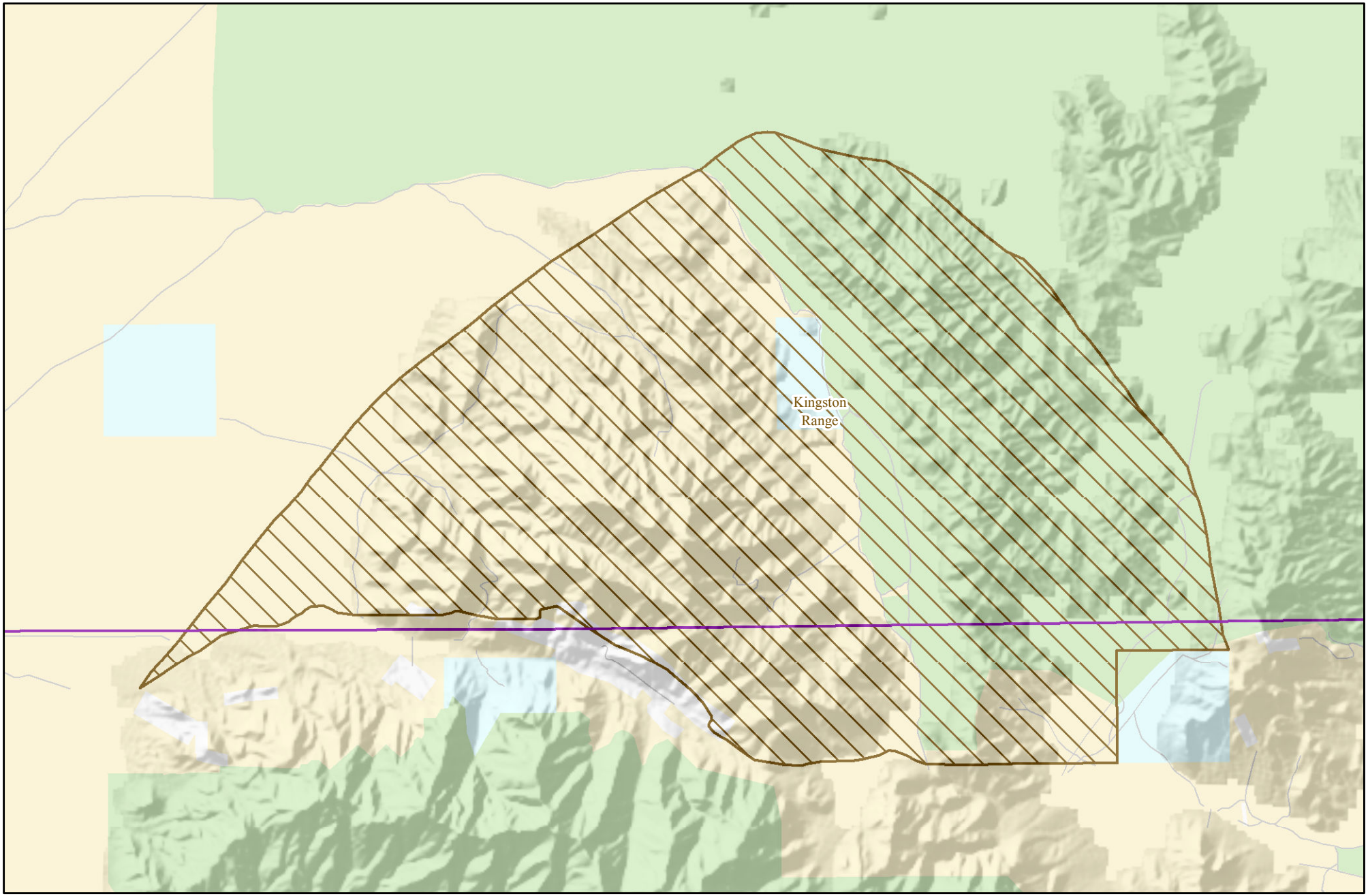
- County Hwy

Kingston Range



1.5 Miles

2 Kilometers

N

No Action ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- OHV Areas
- Legislatively and Legally Protected
- Cities
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

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- Military
- Private

GTLF

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- CA Hwy
- County Hwy

Mesquite Lake

Description/Location: Located on north shore of Mesquite Lake in extreme northeastern San Bernardino County adjacent to Nevada state line. Directly 5 miles south of the town of Sandy, NV, 35 miles southwest of Las Vegas, 45 miles northeast of Baker, CA.

Nationally Significant Values:
Ecological: The Mesquite Valley Mesquite Grove Unusual Plant Assemblage is located within this unit. Mesquite bosques are increasingly vanishing due to urban development. Very few bosques now exist within Southern California. The mesquite habitat provides one of the highest known densities of nesting Lucy's Wablers (*Oreothlypis luciae*) over the entire range of the species and the largest nesting population in California.

Cultural: When Mesquite Lake was a body of water, the Native Americans utilized the various vegetal resources that grew and the avian and mammal resources that were drawn to the lake. Today, Village sites, lithic scatter and broken pottery may occasionally be found along the shoreline or within the loose sand that surrounds the dry lake bed thick stands of mesquite. This location is also of significant importance as a Native American as a heritage learning area for traditional learning skills.

Scientific: Important research opportunities related to archaeology, ethnography of Native American tribes, migration and use in arid environments, and climate change. Restoration of mesquite thickets to their former productivity will require considerable hydrological research and technological innovation to secure a water supply that supplied the mesquite thicket.

Mgmt. Plan/Date of Designation– ACEC Plan No. 15, August 1989

Relevance and Importance Criteria: As stated by CDCA 1980, Mesquite Lake contained relevant cultural resources values classified as surface and subsurface aboriginal artifacts. However, ACEC Plan No. 15 proposes its deletion due to the inability to find a significant amount of these abovementioned resources, and thus leads to an insufficient capacity to contribute important information regarding the region's cultural history. However, this assumption has not included any systematic work to determine the extent to which natural processes have contributed to the lack of resources, and there is a lack of finding any documentation that indicates investigations have been undertaken to determine the presence of material remains in subsurface contexts. In addition, this site has been an important traditional food resource from the extensive mesquite thickets.

Original Goals: Protect a variety of prehistoric and present day cultural resource values.

Proposed Additional Goals: Protect biological values, including habitat quality, populations of sensitive species, and landscape connectivity while providing for compatible public uses. Protect mesquite bosque habitat and species associated with the habitat, such as Lucy's Warbler (*Oreothlypis luciae*).

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	6,700	0	NA
Preferred Alternative	0	6,700	0	1%
1	0	6,700	0	1%
2	6,700	6,700	0	1%
3	0	6,700	0	1%
4	0	6,700	0	1%

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

Alternatives:

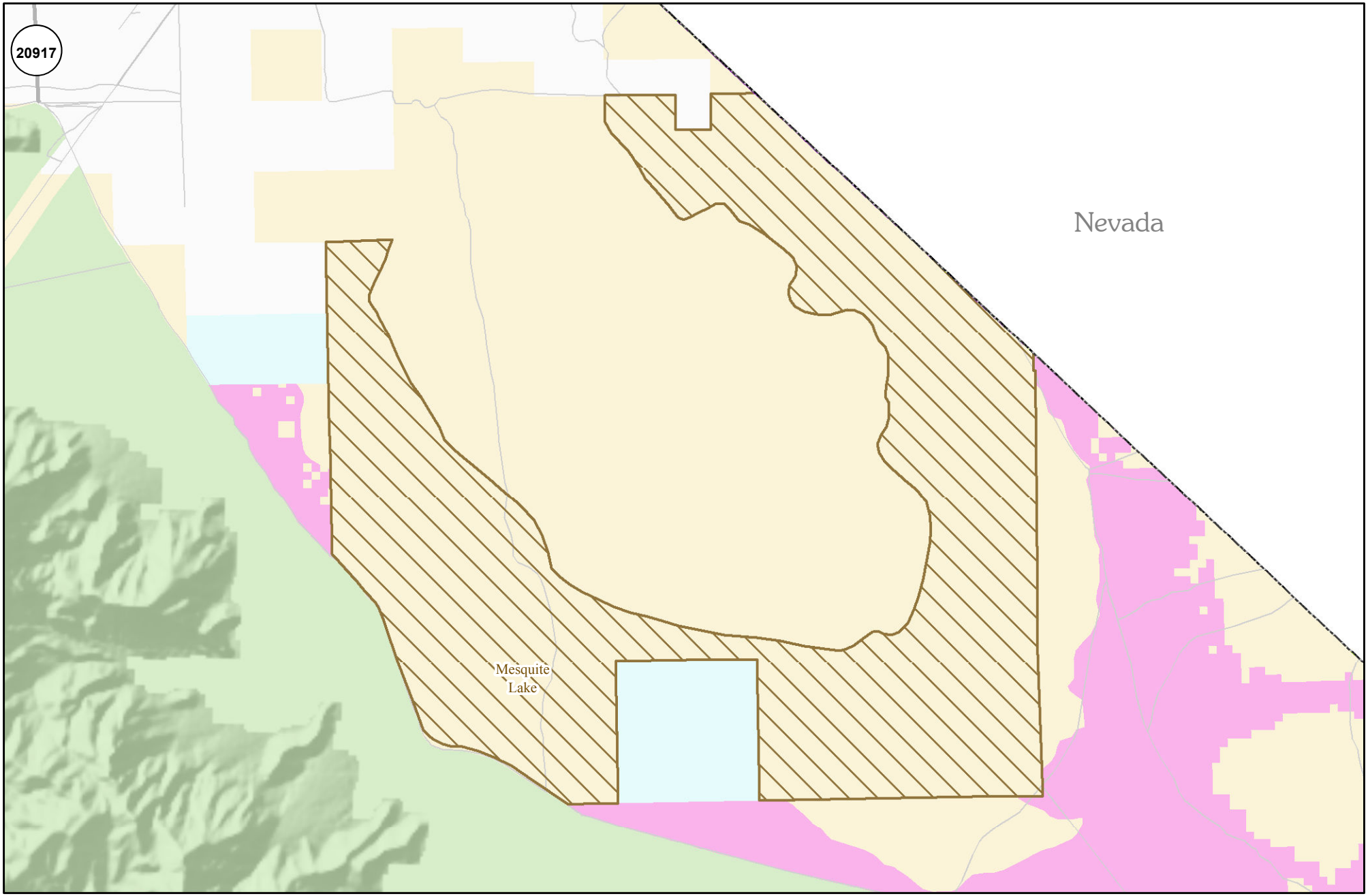
All Action Alternatives:
This existing ACEC would continue to be managed for the original cultural resource values and will add management for the relevant biological resources.

No Action – this existing ACEC would continue to be managed as it currently is.

Objectives (desired future conditions)/Allowable Uses/Management Actions	**Resource**
Prohibit vehicle access to the playa surface.	Soil, water, air
Objective: Protect bosque habitat and species associated with the habitat Action: Prohibit vehicle access and driving in the ACEC to protect the integrity of the mesquite bosque UPA: Mesquite Bosque - This ACEC contains one of the largest mesquite bosques still extant in California, although it is threatened by groundwater mining starting in the 1990s. Rare Plants: Preuss' Milk-Vetch (*Astragalus preussii* var. *preussii*) [CNPS 2.1] Depressed Standing-Cypress (*Loeseliastrum depressum*) [CNPS 4.3] Goodding's Phacelia (*Phacelia pulchella* var. *gooddingii*) [CNPS 2.2]	Vegetation (incl. special status species)
Objective: Protect cultural and religious value of area for Native Americans Management Action: Maintain landscape in undisturbed condition See programmatic ACEC cultural resources objective and action items in general cultural resources rules.	Cultural Resources

Refer to the Mesquite Valley Extensive Recreation Management Area (ERMA) write-up for detailed objectives, allocations, and management direction. Goal: Manage recreation consistent with established conservation goals, while providing a broad range of recreation opportunities, and to ensure public health and safety; This ACEC is highly valued by local equestrians within Sandy Valley.	Recreation
Objective: Acquire all inholdings from willing sellers Objective: Linear Right of Ways that cannot be aligned to avoid the ACEC will be allowed. Site Right of Ways should be consistent with or not impinge upon the purpose of the ACEC.	Rights of Way
Not an allowable use. Renewable energy development is not compatible with NLCS and ACEC unit values and criteria Geothermal: Area is closed to geothermal leasing and development	Renewable Energy
Open to entry for locatable minerals, require plan of operation. Consider saleable and leasable minerals if proposals do not conflict with ACEC values.	Locatable Minerals Mineral Materials Non-energy Leasables

Mesquite Lake



1 Miles
1.5 Kilometers

N

Preferred Alternative ACECs

Date Printed: 5/29/2013

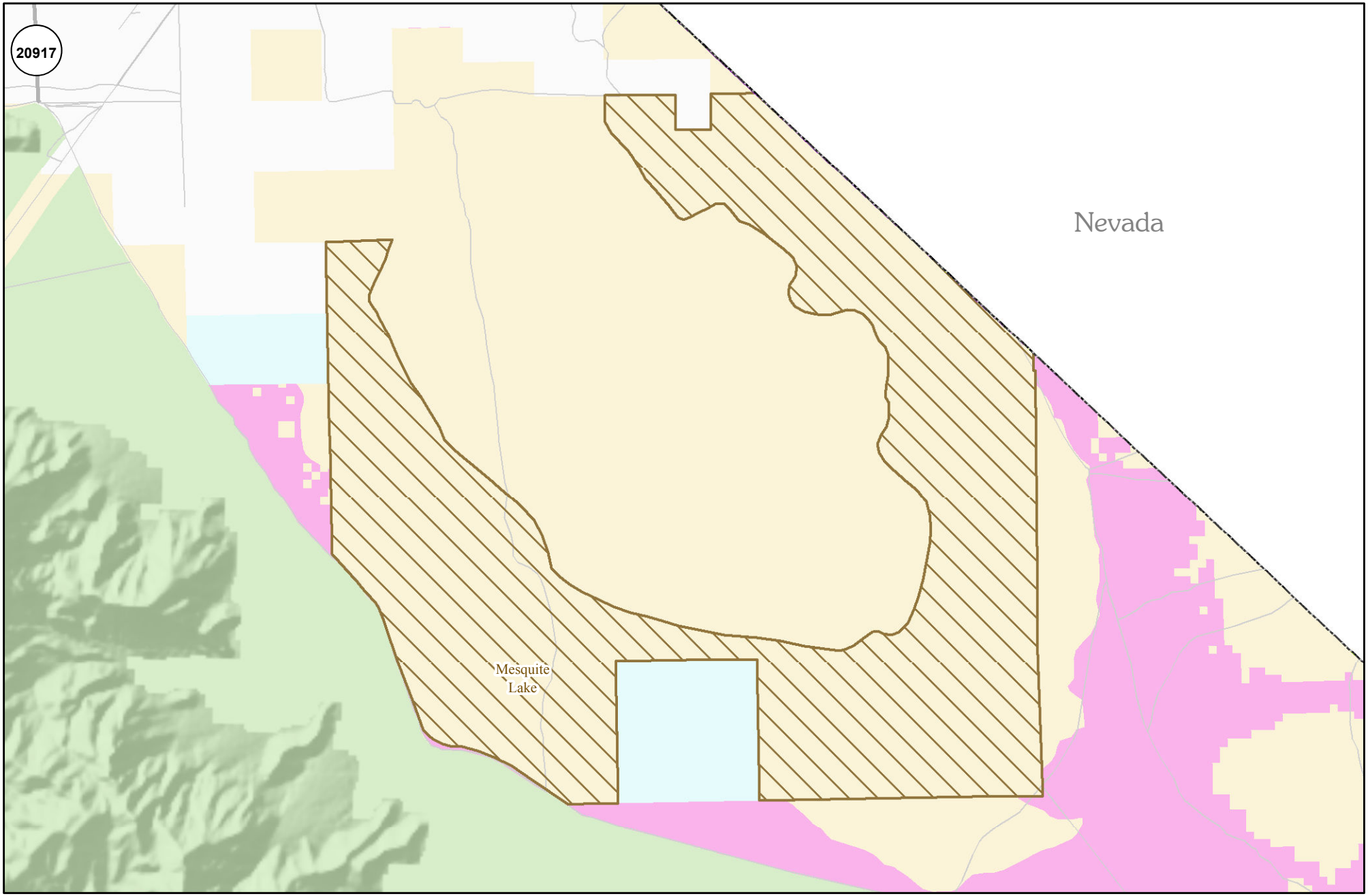
Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mesquite Lake



1 Miles
1.5 Kilometers

N

Alternative 1 ACECs

Date Printed: 5/29/2013

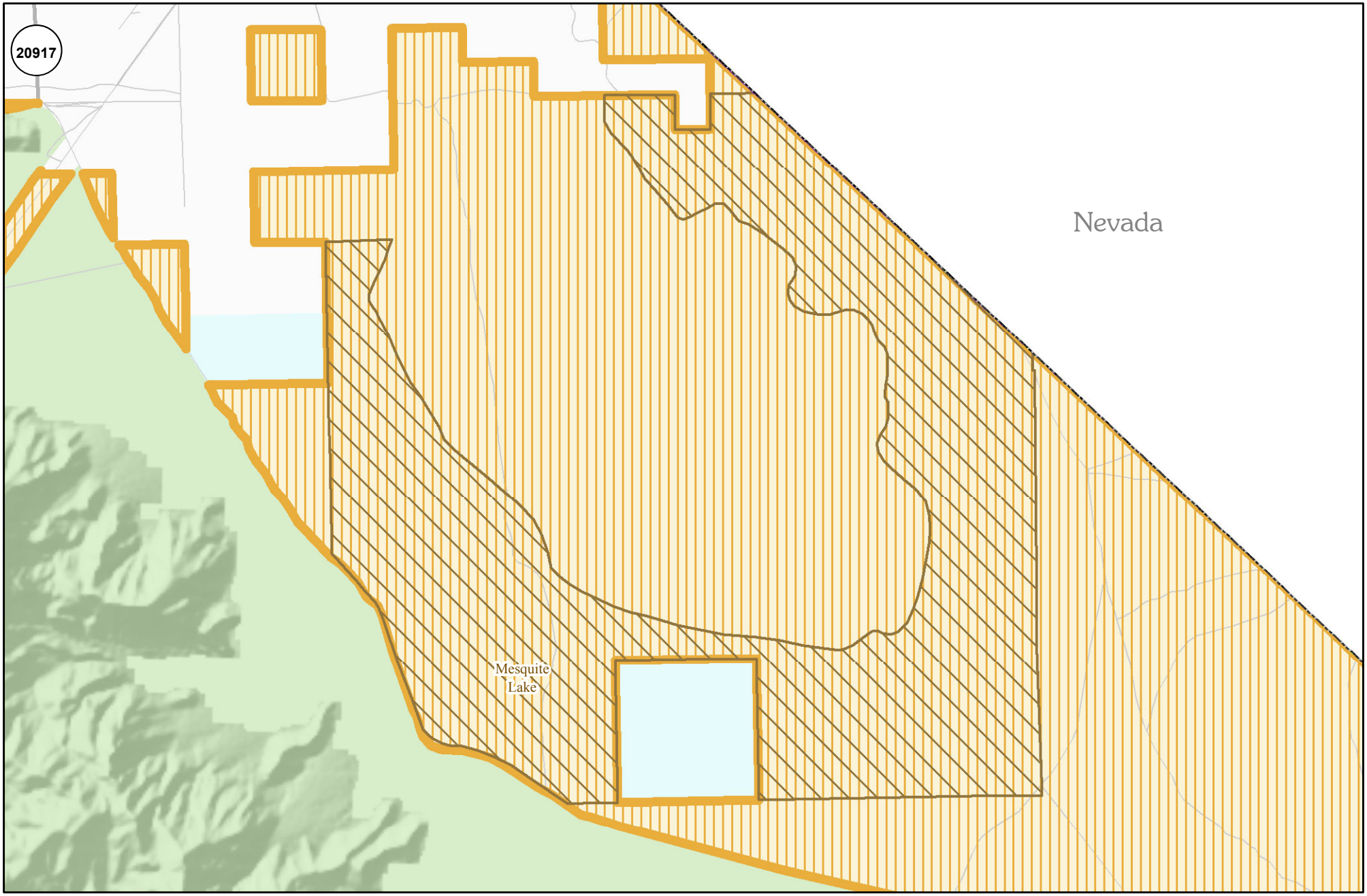
Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mesquite Lake



1 Miles
1.5 Kilometers

N

Alternative 2 ACECs

Date Printed: 5/29/2013

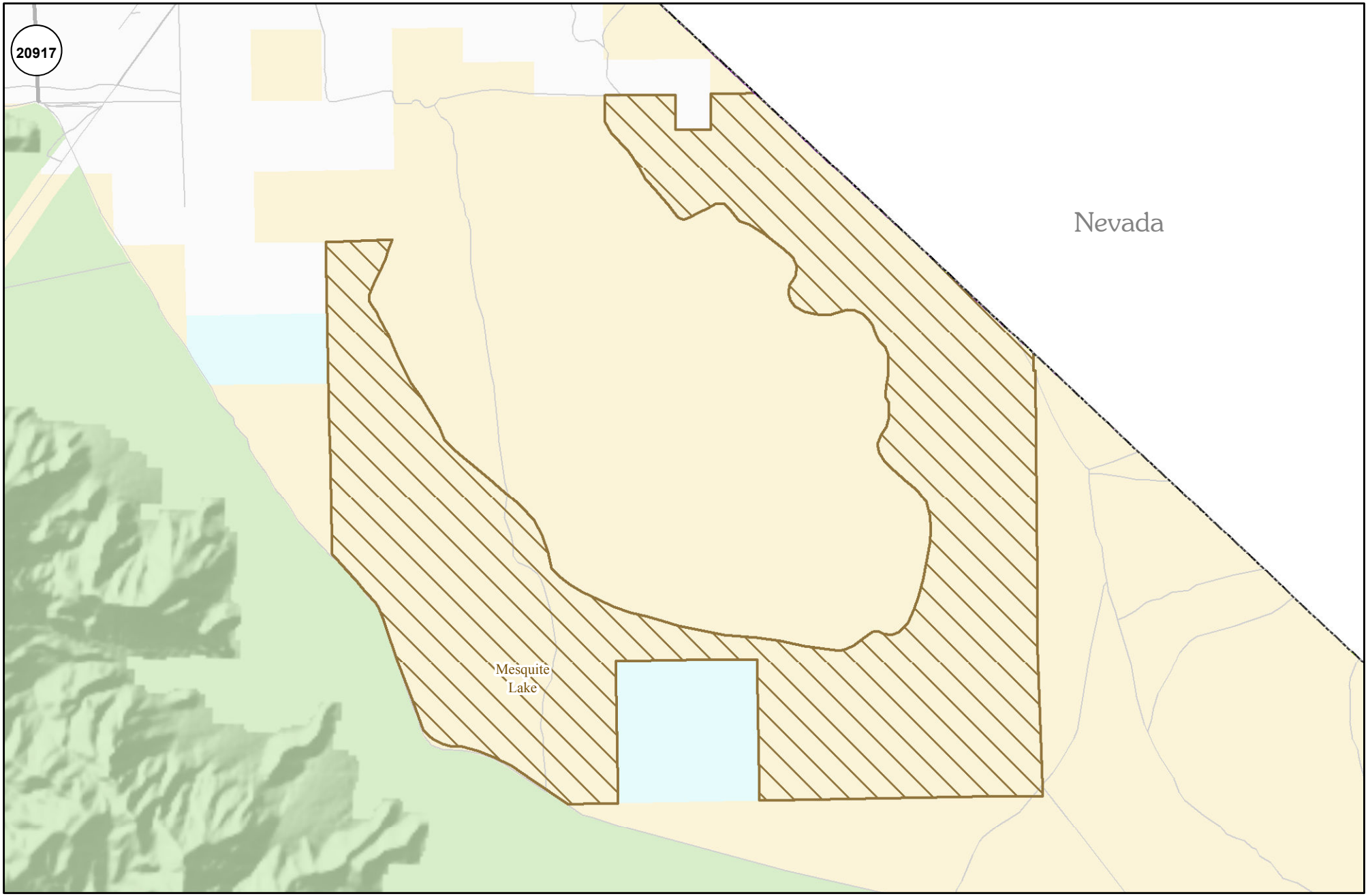
Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mesquite Lake



1 Miles
1.5 Kilometers

N

Alternative 3 ACECs

Date Printed: 5/29/2013

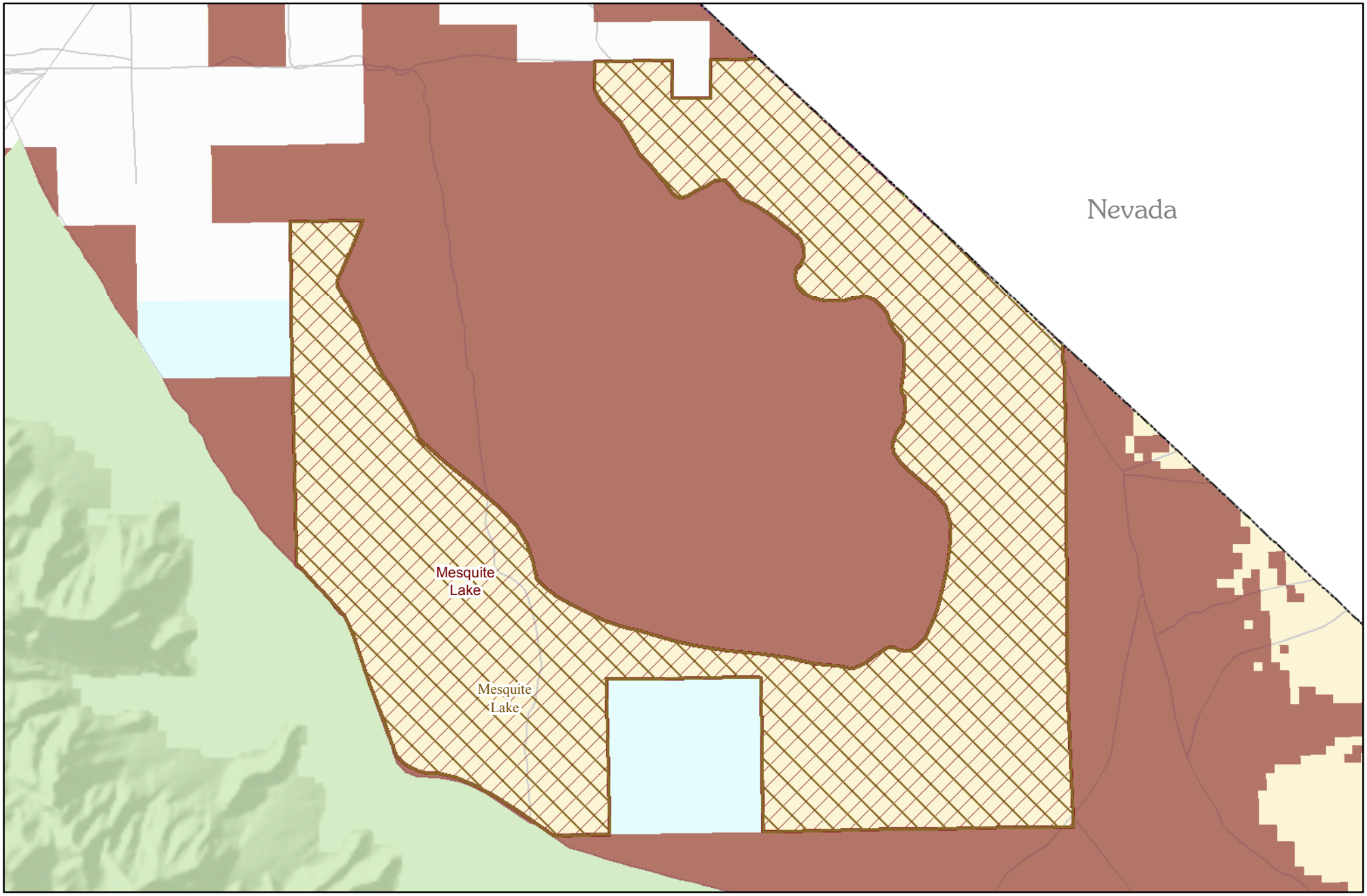
Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mesquite Lake



1 Miles

1.5 Kilometers

N

Alternative 4 ACECs

Date Printed: 8/6/2014

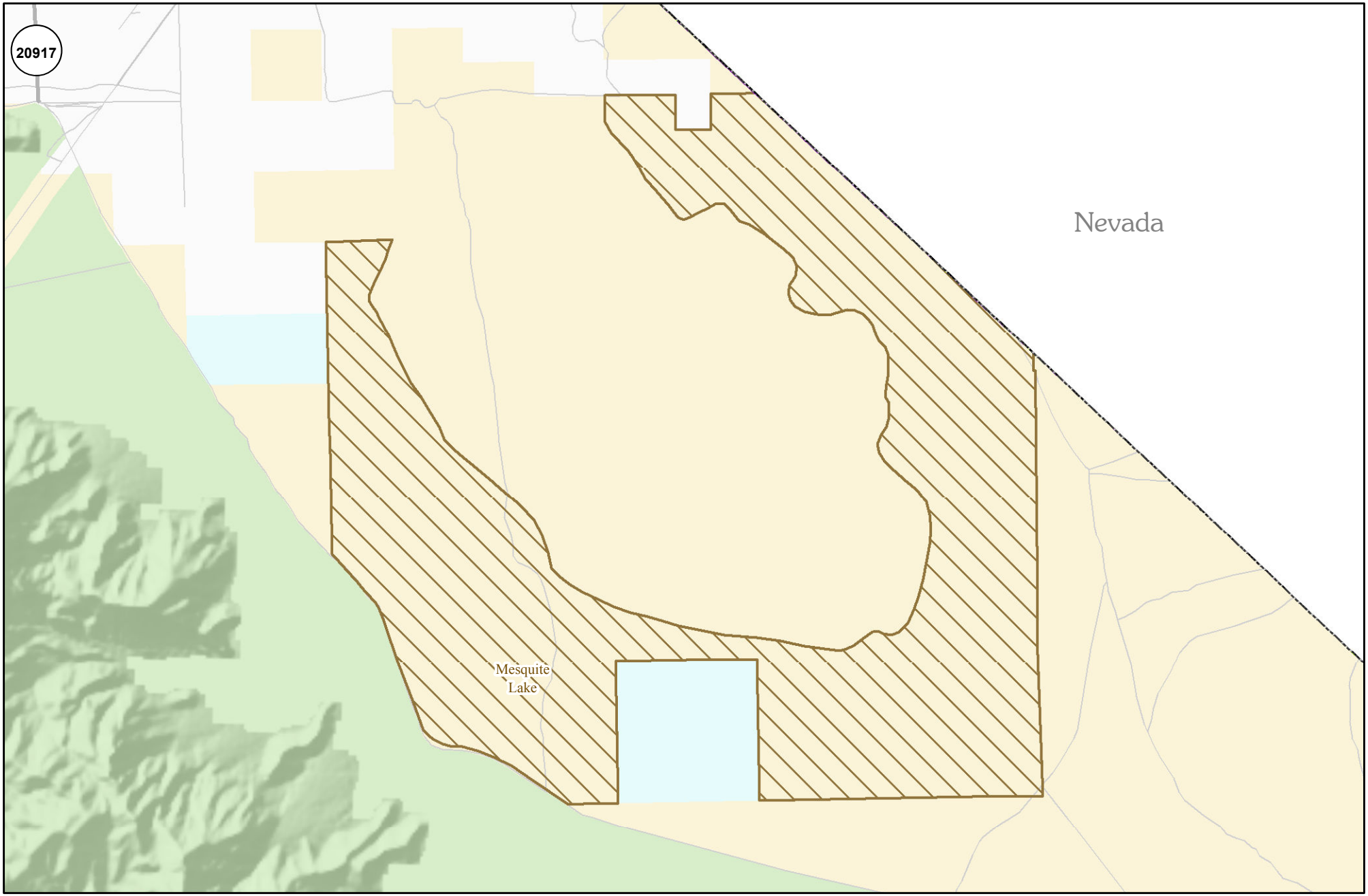
Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed NLCS
- Proposed ACEC
- Proposed Wildlife Allocation
- Legislatively and Legally Protected
- Design Focus Areas
- Variance Lands
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mesquite Lake



1 Miles
1.5 Kilometers

N

No Action ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- OHV Areas
- Legislatively and Legally Protected
- Cities
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mountain Pass Dinosaur Trackway

Description/Location: South of Interstate 15 and north of the Mojave National Preserve, this unit is approximately 7 miles from the California-Nevada border, near Mountain Pass

Nationally Significant Values:
Cultural: The area is primarily a unique geologic feature which offers outstanding opportunities to conduct studies of paleontological resources. For the protection of the site, the tracks have been recovered to prevent discovery and information regarding this site is to be removed from publications of the area.

Scientific: During the age of the dinosaur, several different species walked across soft sands and mud, leaving tracks behind that are now again exposed to view in the rocks and areas around Mountain Pass. The Dinosaur Trackway is the only known occurrence of fossil Mesozoic reptile tracks in California. They are considered rare anywhere in the western United States, and therefore warrant protection.

Mgmt. Plan/Date of Designation- ACEC Plan No. 30, August 1982

Relevance and Importance Criteria: Relevant paleontological resources. The Dinosaur Trackway is the only known occurrence of fossil Mesozoic reptile tracks in California. This ACEC is a Congressional site, designated through the California Desert Protection Act of 1994.

Goals: Preserve known sites, and potentially uncover new ones, by discouraging unsupervised access and use of the area, as well as strictly controlling mining and quarrying. Encourage paleontological inventory and research by accredited groups.

Designation and Acreage by Alternative:

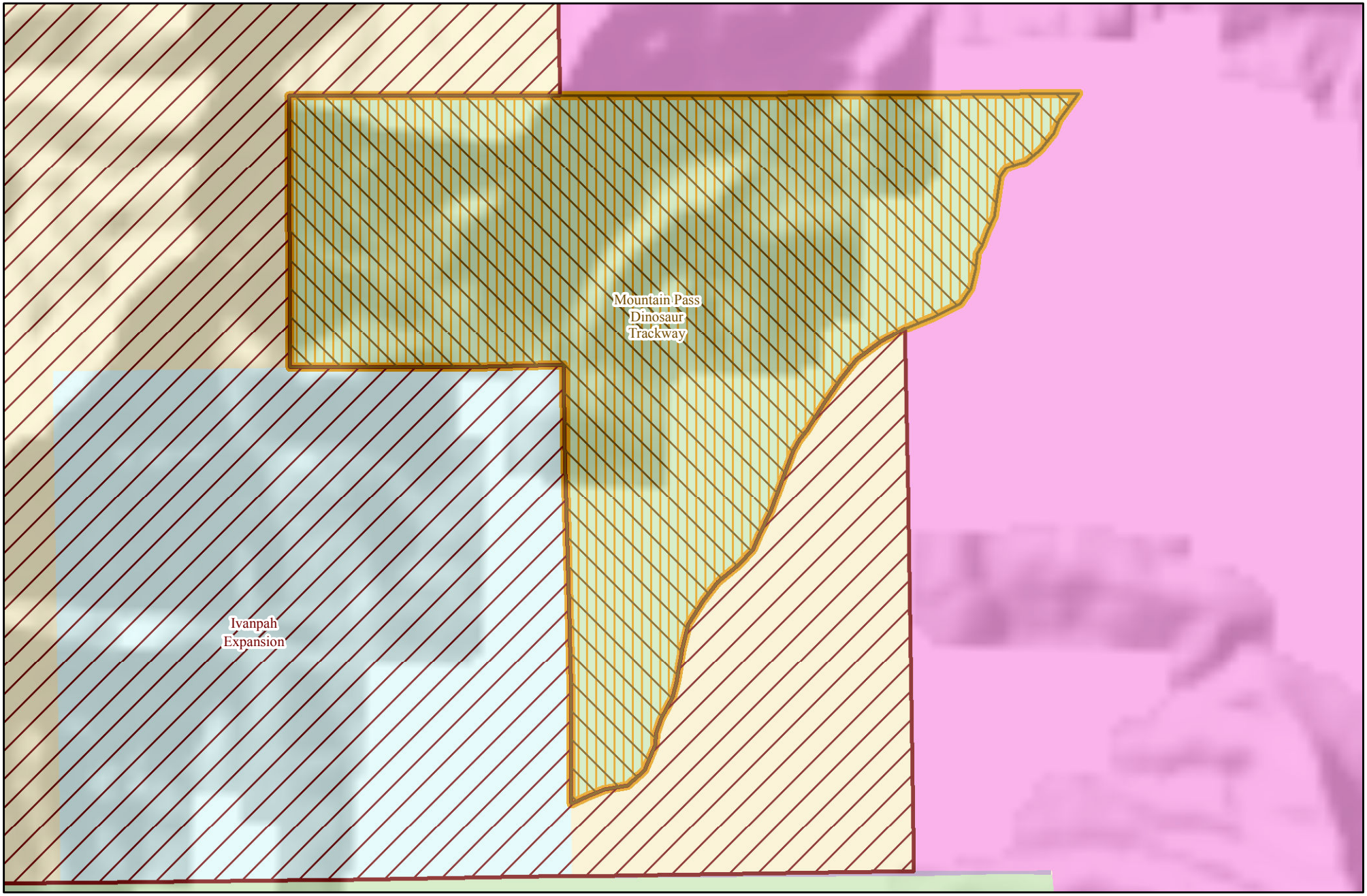
Alternative	BLM Acres of NLCS within ACEC or Wildlife Allocation	BLM Acres within ACEC	BLM Acres within Wildlife Allocation	ACEC Disturbance Cap
No Action	0	600	0	NA
Preferred Alternative	600	600	0	1%
1	600	600	0	1%
2	600	600	0	1%
3	600	600	0	1%
4	600	600	0	1%

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

Alternatives:
All Alternatives – this existing ACEC would continue to be managed as it currently is.

Objectives (desired future conditions)/Allowable Uses/Management Actions	Resource
Protect soils and geology related to trackway. Control erosion. Limit OHV use to designated routes.	Soil, water, air
Objective: General Management and Protection of Paleontological Resources Management Action 1: Manage and protect fossil resources consistent with the Paleontological Resources Preservation Act. Management Action 2: Develop plans for the inventory, monitoring, and scientific and educational use of paleontological resources as needed. Objective: Create offsite availability of trackway casts Management Action: Map trackway locations and make molds of tracks	Paleontology
Goal: Provide for the use of a designated system of roads and trails to ensure access to the public for appropriate uses. Management Action 1: All legal open roads and trails will be signed including road or trail number/name. All roads and trails identified as closed will be rehabilitated/restored. Management Action 2: Restore all undesignated roads or trails. Management Action 3: Provide routine maintenance of the designated roads and trails system including installation of routine signs, markers, culverts, ditches, water bars, barriers, gates, or cattle guards on/or adjacent to system roads and trails.	Trails and Travel Management
Goal: Manage recreation consistent with established conservation goals, while providing a broad range of recreation opportunities, and to ensure public health and safety; Management Action 1: Provide interpretive, directional, and regulatory signs and materials as necessary to provide public information and reduce impacts from recreational use. Management Action 2: Prohibit competitive special recreation events.	Recreation
ROW Avoidance Zone	Rights of Way
No Renewable Energy Development Geothermal: Area is closed to geothermal leasing and development	Renewable Energy
Objective: Develop measures to regulate mining or quarrying to protect known tracks and preserve new finds Management Action: Qualified paleontological monitor must be present during all assessment work and/or excavation affecting Aztec formation	Locatable Minerals Mineral Materials Non-energy Leasables

Mountain Pass Dinosaur Trackway



0.35 Miles

0.5 Kilometers

N

Preferred Alternative ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

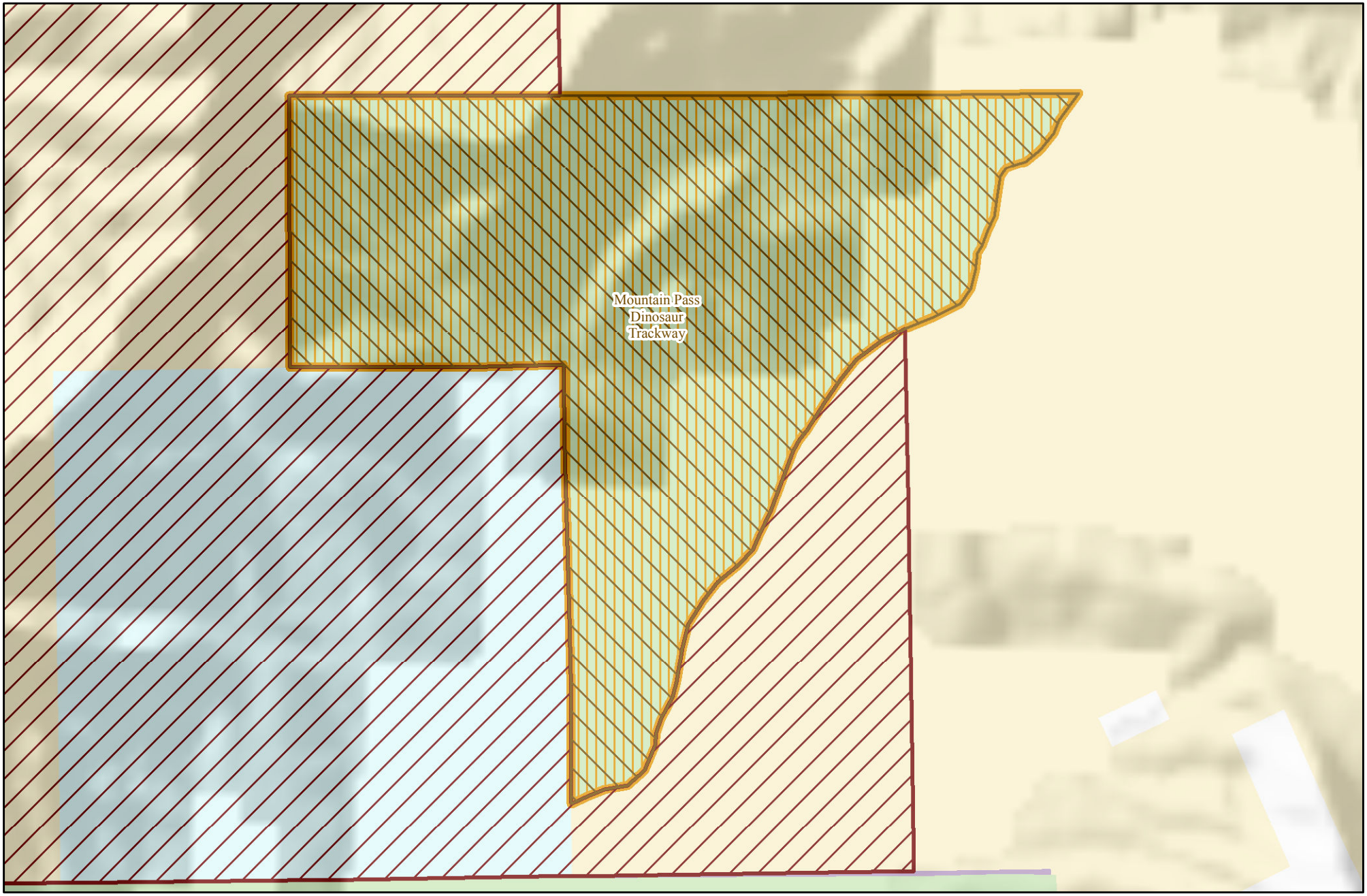
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mountain Pass Dinosaur Trackway



0.35 Miles

0.5 Kilometers

N

Alternative 1 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

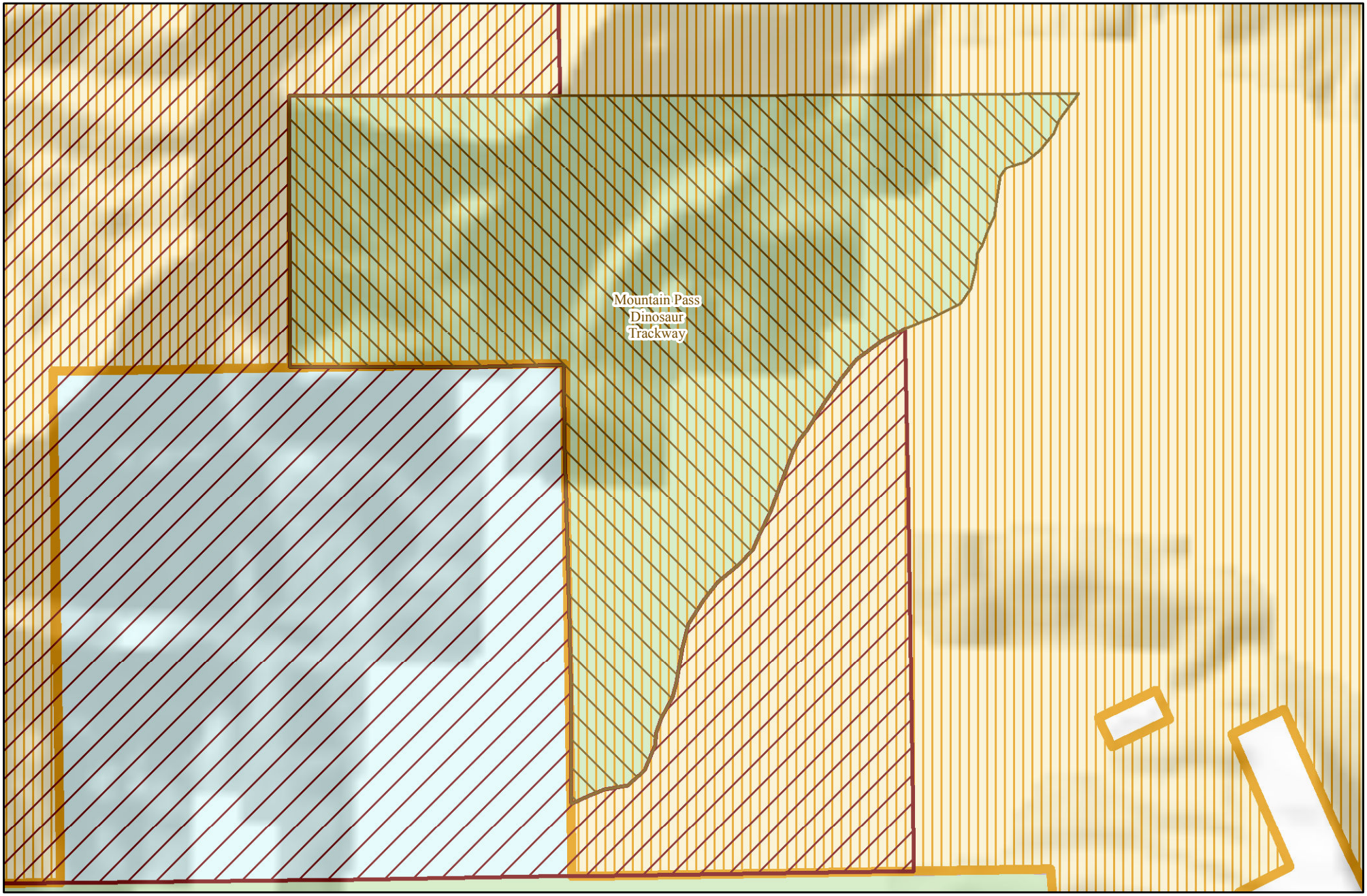
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mountain Pass Dinosaur Trackway



0.35 Miles

0.5 Kilometers

N

Alternative 2 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

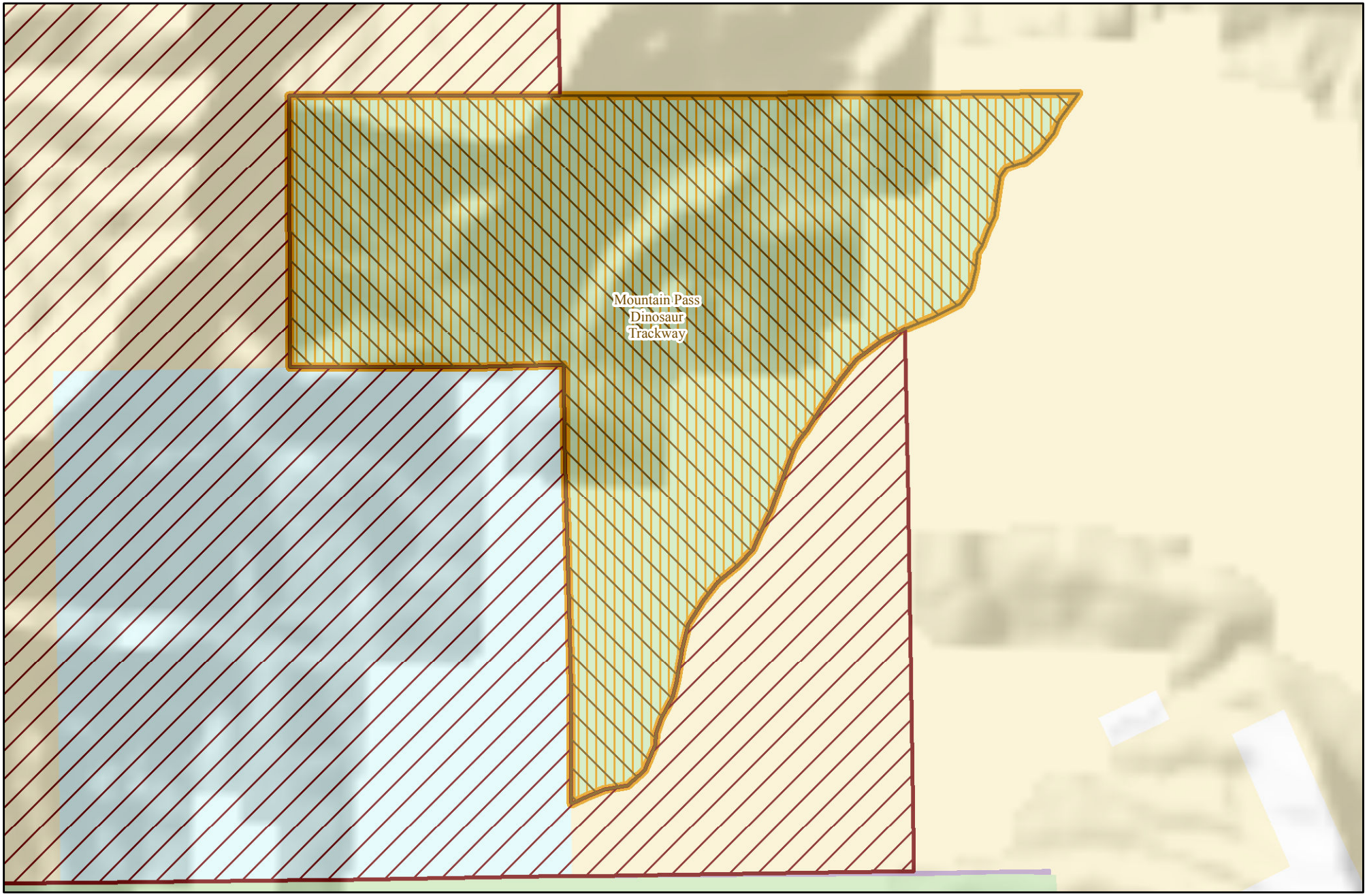
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mountain Pass Dinosaur Trackway



0.35 Miles

0.5 Kilometers

N

Alternative 3 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

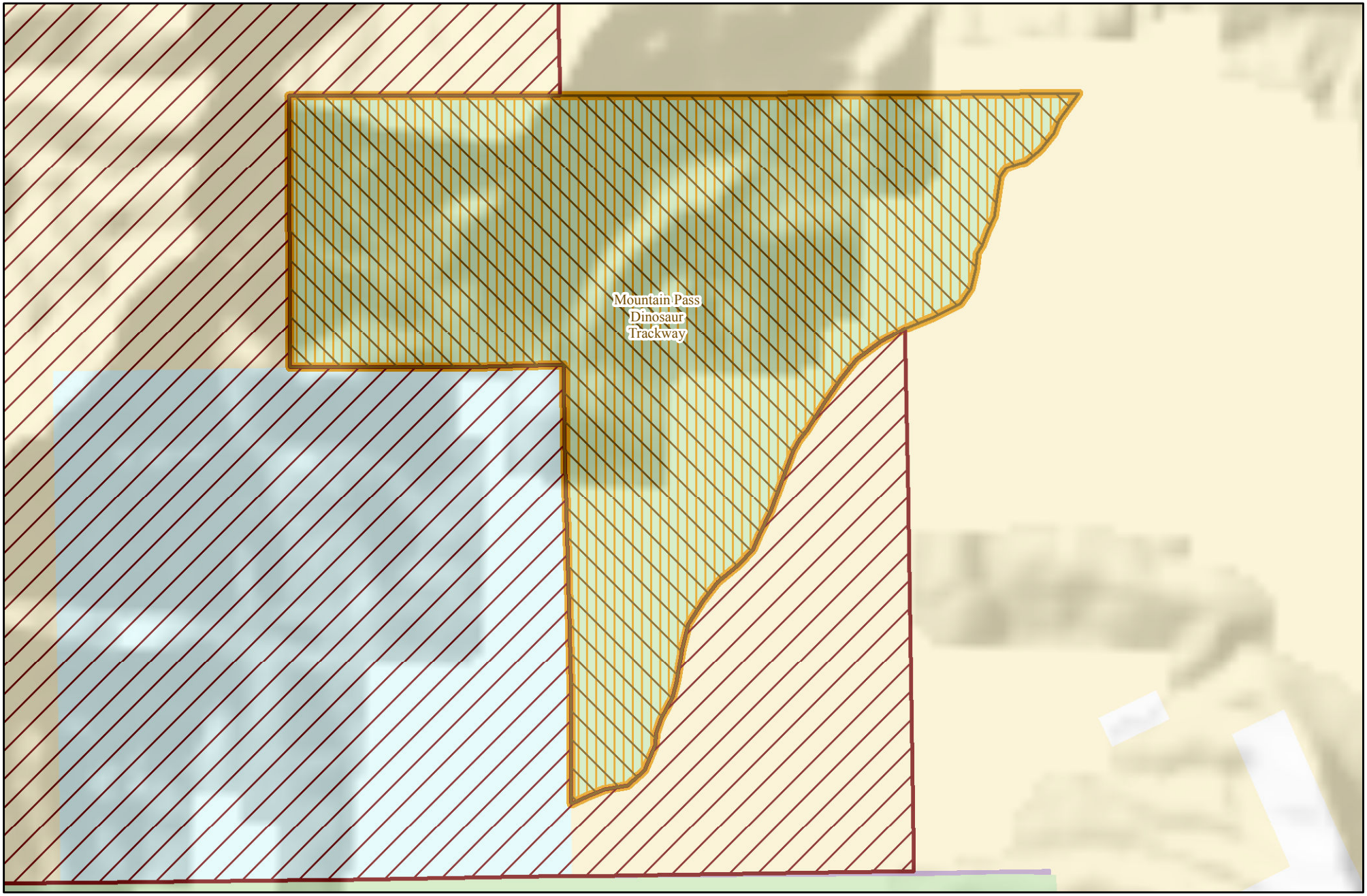
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mountain Pass Dinosaur Trackway



0.35 Miles

0.5 Kilometers

N

Alternative 4 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

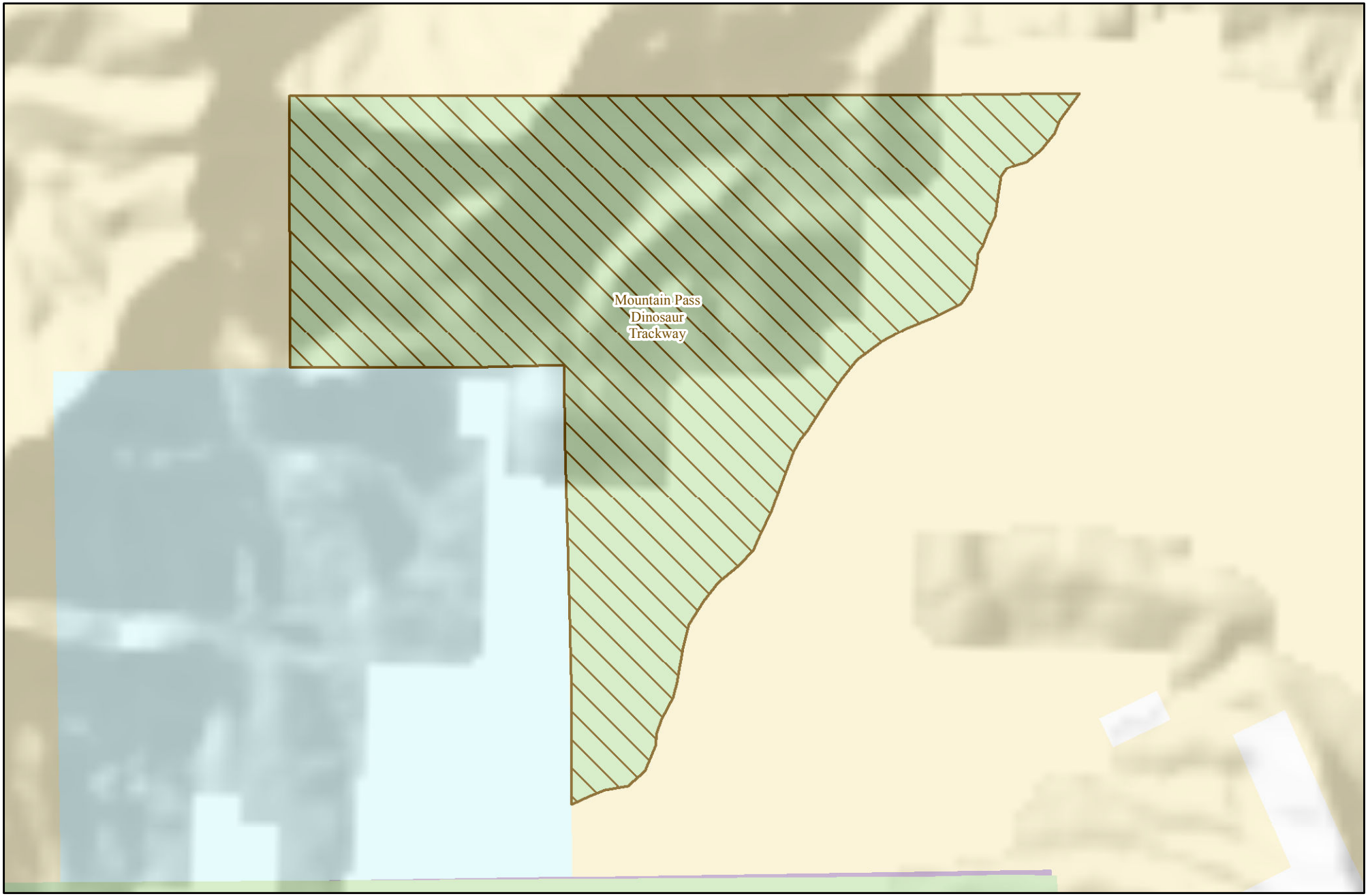
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Mountain Pass Dinosaur Trackway



0.35 Miles

0.5 Kilometers

N

No Action ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- OHV Areas
- Legislatively and Legally Protected
- Cities
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Shadow Valley

Description/Location: Located within the Shadow Valley Tortoise Management Unit which is bounded on the north by the Kingston Range, on the west by the Shadow Mountains, on the south by I-15 and on the east by the Clark Mountains. The expansion of this ACEC would continue to west to Hwy 127 and would encompass the Silurian Valley area, with the northern boundary being the Kingston Range Wilderness area and Salt Creek Hills ACEC and the southern boundary being Interstate 15.

Nationally Significant Values:

Ecological: Most of the vegetation of the area can be classified within Creosote bush/white bursage, Creosote bush scrub, Mixed saltbush, Joshua tree, Blackbush, and Mojave yucca vegetation series. Additionally, this area contains Unusual Plant Assemblages: the Shadow Valley Shadscale Assemblage (Valley Well Shadscale Scrub) and the Kingston Range Mojave Yucca Scrub and Steepe Assemblage. There is also a high concentration of biological soil crusts which consist of cyanobacteria, green algae, lichens, mosses, microfungi, and other bacteria.

The Silurian Valley has been identified as an important east-west migration corridor for bats and parts of the valley were determined a Bat Conservation Area under the NECO Plan.

Cultural: The Shadow Valley Expansion would add many culturally significant features to the ACEC within the Silurian Valley. Through the years, the Silurian Valley has seen little development and the valley remains relatively visually intact dating back to the Old Spanish Trail period with the exception of the paving of Highway 127, which for the most part follows the course of the Old Spanish Trail/Mormon Road/Salt Lake Road/Santa Fe Trail.

The Silurian Valley is within the congressionally designated Old Spanish Trail corridor. This area has a pristine historic landscape that has been identified as having an exceptional recreational value for a driving experience to view the landscape as it was during the period of trail usage. The historic setting meets criteria for inclusion to the National Register of Historic Places.

The Tonopah, Tidewater Railroad (T&T) served as an important transportation link between the isolated mining communities of the Mojave Desert for 35 years. The 9 mi segment of the rail line that passes through the Silurian Valley conveys the difficult nature of early railroad development in the desert southwest during the historic period and retains location, design, setting, materials, workmanship, feeling and association.

The T&T Railroad within the Silurian Valley exhibits structural elements not seen along any of the other recorded segments of the rail line to date. Those elements, the culverts, platforms, furrows, and other associated features, together embody a distinctive characteristic of type, period, and method of construction, and represent a significant and distinguishable entity. The numerous railroad grade features recorded demonstrate and convey integrity of design, materials, and workmanship. Hence, the segment of the T&T Railroad within the Shadow Valley expansion retains integrity of location, setting, and feeling in that the grade is situated where it was constructed some 105 years ago. The T&T meets criteria for eligibility to the National Register of Historic Places.

The T&T Railroad played an important role in western expansion of the United States. The railroad made it possible for large scale mining and settlement in the Death Valley region. The town site of Riggs as well as associated mining and various mining features are within the Silurian Valley. The town and features are associated with the T&T and meet criteria for eligibility to the National Register of Historic Places. Because of the association of the T&T with the local mining in the area, the T&T, town site of Riggs, and associated mining, this would meet criteria for eligibility as a National Register of Historic Places district.

Three prehistoric sites were recently recorded within the Silurian Valley. These sites appear to be paleo Indian sites possibly dating as far back as 12,000 years. This is during the transition between the Pleistocene and Holocene periods. Sites of this age are rare in the Americas. These sites may lend to a better understanding of how humans adapt to global warming. These sites meet criteria for eligibility to the National Register of Historic Places.

The LADWP Boulder Transmission which crosses the Silurian Valley was constructed in 1933. The line was built to service construction of Hoover Dam and transport power to Los Angeles. The Transmission line is listed on the National Register of Historic Places.

Special Designations/Management Plan/Date: NEMO Plan Amendment 2002

Relevance and Importance Criteria: Relevant biological and cultural resources. The Shadow Valley area is contiguous with lands managed for viable desert tortoise (*Gopherus agassizii*) populations to the south of I-15 inside the NPS Mojave National Preserve. Shadow Valley is in conjunction with areas of the Preserve, includes a unique genetic unit within California, as well as provides habitat and supports regionally important populations of desert bighorn sheep and desert tortoise. It also has diverse vegetation types and topography that allows tortoises to respond to climatic variation. The area provides important wildlife landscape connections.

The expansion area has relevant biological (sensitive species habitat and wildlife landscape connections) and cultural resources (Old Spanish Trail and historic and prehistoric sites) making it worthy of inclusion into the ACEC.

Goals: Protect biological values, including habitat quality, populations of sensitive species, and landscape connectivity while providing for compatible public uses. Manage area in accordance with the Desert Tortoise Recovery Plan. Protect cultural resource values, specifically identified with the Silurian Valley area.

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	95,800	0	NA
Preferred Alternative	168,300	197,600	0	0.5%
1	44,100	213,600	0	0.5%
2	136,500	178,000	0	0.5%
3	183,300	213,600	0	0.5%
4	29,000	197,600	0	0.5%

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

Alternatives:

Alternatives: Preferred, 1, 2, and 3 – The existing Shadow Valley unit overlaps the Halloran Wash ACEC and designated wilderness. To resolve this dual designation, these action alternatives will removed these dually designated acres from Shadow Valley (the designation of the other ACEC or wilderness would remain and the acres would still be for conservation purposes) to assist BLM is accurate reporting of number of acres in conservation status. Additionally, there would be expansion of the ACEC into the Silurian Valley area and this area be designated as ACEC and/or Wildlife Allocation (size and location vary, see preceding table and maps that follow).

Alt 4- The existing Shadow Valley unit overlaps the Halloran Wash ACEC and designated wilderness. To resolve this dual designation, these action alternatives will removed these dually designated acres from Shadow Valley (the designation of the other ACEC or wilderness would remain and the acres would still be for conservation purposes) to assist BLM is accurate reporting of number of acres in conservation status. The unit would not be expanded into the Silurian Valley; it would be managed as it currently is.

No action alternative - this existing ACEC would continue to be managed as it currently is, and the dual designations would remain.

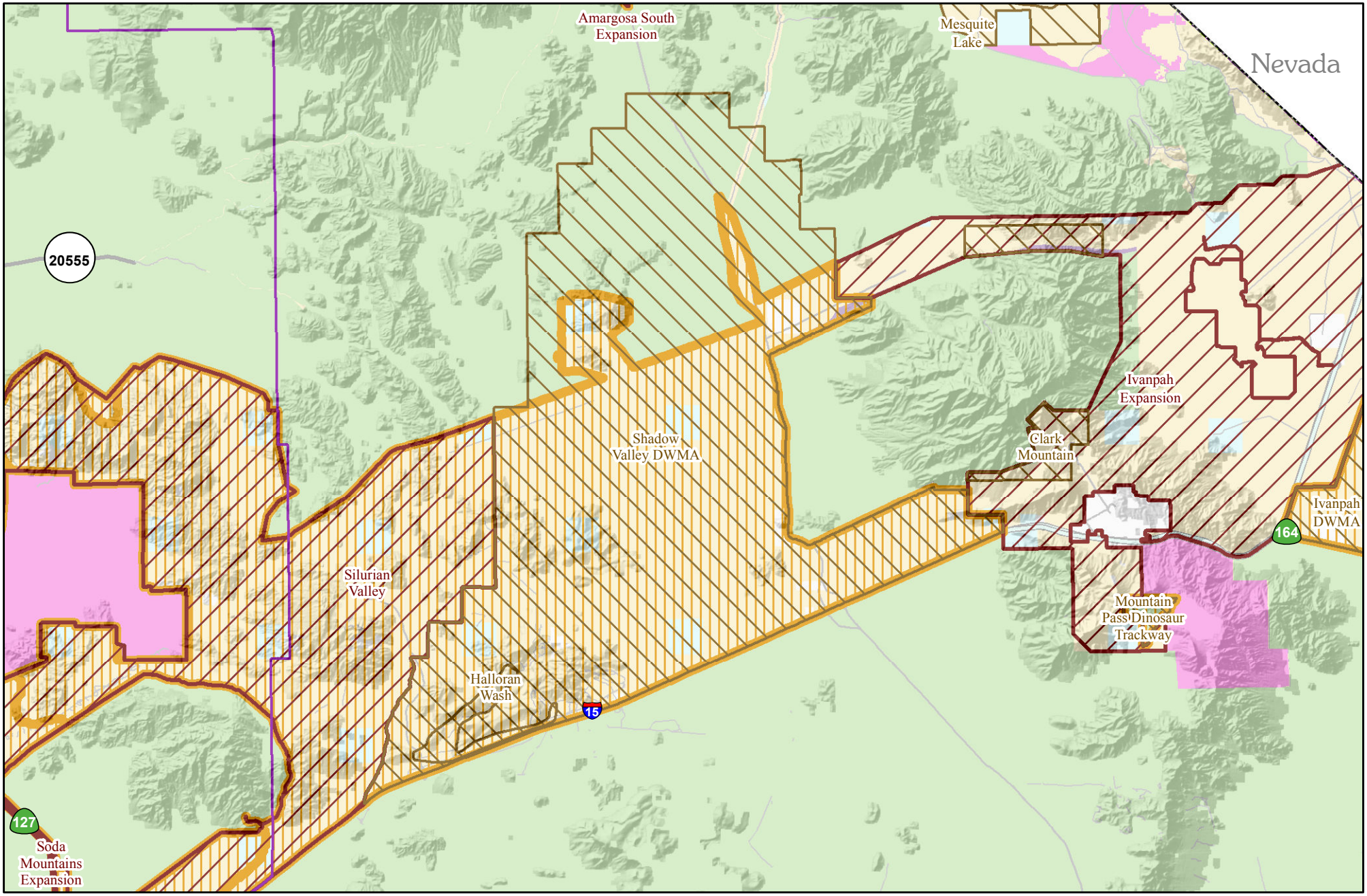
Objectives (desired future conditions)/Allowable Uses/Management Actions	**Resource**
Unusual Plant Assemblage: Valley Wells Shadscale Assemblage Kingston Range Mojave Yucca Scrub and Steepe Assemblage Rare Plants: Mojave milkweed (*Asclepias nyctaginifolia*) [CNPS 2.1] Tidestrom's milk-vetch (*Astragalus tidestromii*) {CNPS 2.2] Scaly cloak fern (*Astrolepis cochisensis ssp. cochisensis*) [CNPS 2.3] King's eyelash grass (*Blepharidachne kingii*) [CNPS 2.3] King's eyelash grass (*Blepharidachne kingii*) [CNPS 2.3] Desert pin cushion (*Coryphantha chlorantha*) [CNPS 2.1] Purple-nerve cympoterus (*Cymopterus multinervatus*) [CNPS 2.2] Nine-awned pappus grass (*Enneapogon desvauxii*) [CNPS 2.2] Parish's club-cholla (*Grusonia parishii*) [CNPS 2.2] Wing-seed blazing star (*Mentzelia pterosperma*) [CNPS 2.2] Rusby's desert-mallow (*Sphaeralcea rusbyi var. eremicola*) [CNPS 1B.2] BLM Sensitive Plant Species Palmer's jackass clover (*Wislizenia refracta ssp. refracta*) [CNPS 2.2] Objective: Maintain or Improve condition of vegetation Management Action 1: Remove invasive plants, rehabilitate/revegetated disturbed areas, as needed Management Action 2: Protect populations of special status plants Management Action 3: Protect Unusual Plant Assemblages and rare alliances Management Action 4: Prohibit the collection of any live vegetation and/or dead and down material.	Vegetation (incl. special status species)

Special Status Species: Desert Tortoise pallid bat (*Antrozous pallidus*) – BLM Sensitive Townsend's Big-eared Bat (*Corynorhinus townsendii*) – BLM Sensitive Western small-footed myotis (*Myotis ciliolabrum*) - BLM Sensitive Fringed myotis (*Myotis thysanodes*)- BLM Sensitive Yuma myotis (*Myotis yumanensis*) - BLM Sensitive Long-eared myotis (*Myotis evotis*) - BLM Sensitive Western mastiff bat (*Eumops perotis*) - BLM Sensitive Spotted bat (*Euderma maculatum*) - BLM Sensitive Silurian Valley Sensitive Species Golden Eagle Northern harrier (*Circus cyaneus*) Prairie falcon (*Falco mexicanus*), Burrowing owl (*Athene cunicularia*), Loggerhead shrike (*Lanius ludovicianus*), Le Conte's thrasher (*Toxostoma lecontei*), Objective: Maintain or improve condition of sensitive wildlife species Management Action: Maintain viable populations and connections between other conservation areas Objective: Monitor log-term trends in desert tortoise populations Management Action 1: Implement interagency line distance sampling Management Action 2: Boundaries of ACEC will be signed and patrolled Management Action 3: Maintain connectivity across the ACEC and among the surrounding large blocks of wilderness areas Management Action 4: All ACEC lands bordering Interstate freeways and major highways shall be fenced, as funding becomes available. Portals need to be developed to accommodate route network.	Fish and Wildlife (incl. special status species)
Objective: General Management of Cultural Resources Management Action 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). Management Action 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. Management Action 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. Objective: Establish Baseline Resource Information/Identify and Document Cultural Resources Management Action 1: Survey, identify and record new cultural resources within the ACEC boundaries.	Cultural Resources

Management Action 2: Update records for existing cultural resources within the ACEC. Management Action 3: Integrate survey information into BLM cultural resources management systems (cultural GIS geodatabase) Objective: Evaluate and Nominate Cultural Resources Management Action 1: Utilizing the eligibility criteria of the National Register of Historic Places, complete an evaluation of all cultural resources in the ACEC for eligibility either as an individual historic property or determine whether there significant resources might comprise a district. Management Action 2: Complete nominations to the National Register of Historic Places for significant historic properties. Objective: Identify Threats to Cultural Resources Management Action 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). Objective: Monitoring/Protective Measures Management Action 1: Provide on-going monitoring for cultural resources based on the threat assessment. Management Action 2: Identify, develop or incorporate standard protection measures and best management practices to address threats. Management Action 2: Where specific threats are identified, implement protection measures consistent with agency Section 106 responsibilities. Objective: Interpretation/Public Awareness Management Action 1: Facilitate research, scientific study, and general study of cultural resources within the ACEC. Management Action 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.	
Objective: Provide for the use of a designated system of roads and trails to ensure access to the public for appropriate uses. Management Action 1: All legal open roads and trails will be signed including road or trail number/name. All roads and trails identified as closed will be rehabilitated/restored. Management Action 2: Restore all undesignated roads or trails. Management Action 3: Provide routine maintenance of the designated roads and trails system including installation of routine signs, markers, culverts, ditches, water bars, barriers, gates, or cattle guards on/or adjacent to system roads and trails.	Trails and Travel Management
Refer to the Shadow Valley Extensive Recreation Management Area (**ERMA)** write-up for detailed objectives, allocations, and management direction.	Recreation
Objective: Consolidate habitat management Management Action: Acquire inholdings from willing sellers	Inholdings

Rights of Ways will be allowed where they do not negatively affect the DWMA Relevance and Importance Values.	Rights of Way
Not an allowable use. Renewable energy development is not compatible with NLCS and ACEC unit values and criteria Geothermal: Area is closed to geothermal leasing and development	Renewable Energy
Open mineral entry w/ stipulations	Locatable Minerals Mineral Materials Non-energy Leasables
Objective: Management of livestock grazing that supports wildlife habitat Management Action 1: Cattle allotments will be retired if permits are relinquished voluntarily. Management Action 2: Fire loads may be managed through herbivory (sheep and goat) treatment of smaller live fuels areas.	Livestock grazing

Shadow Valley



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7.5 Kilometers

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Preferred Alternative ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

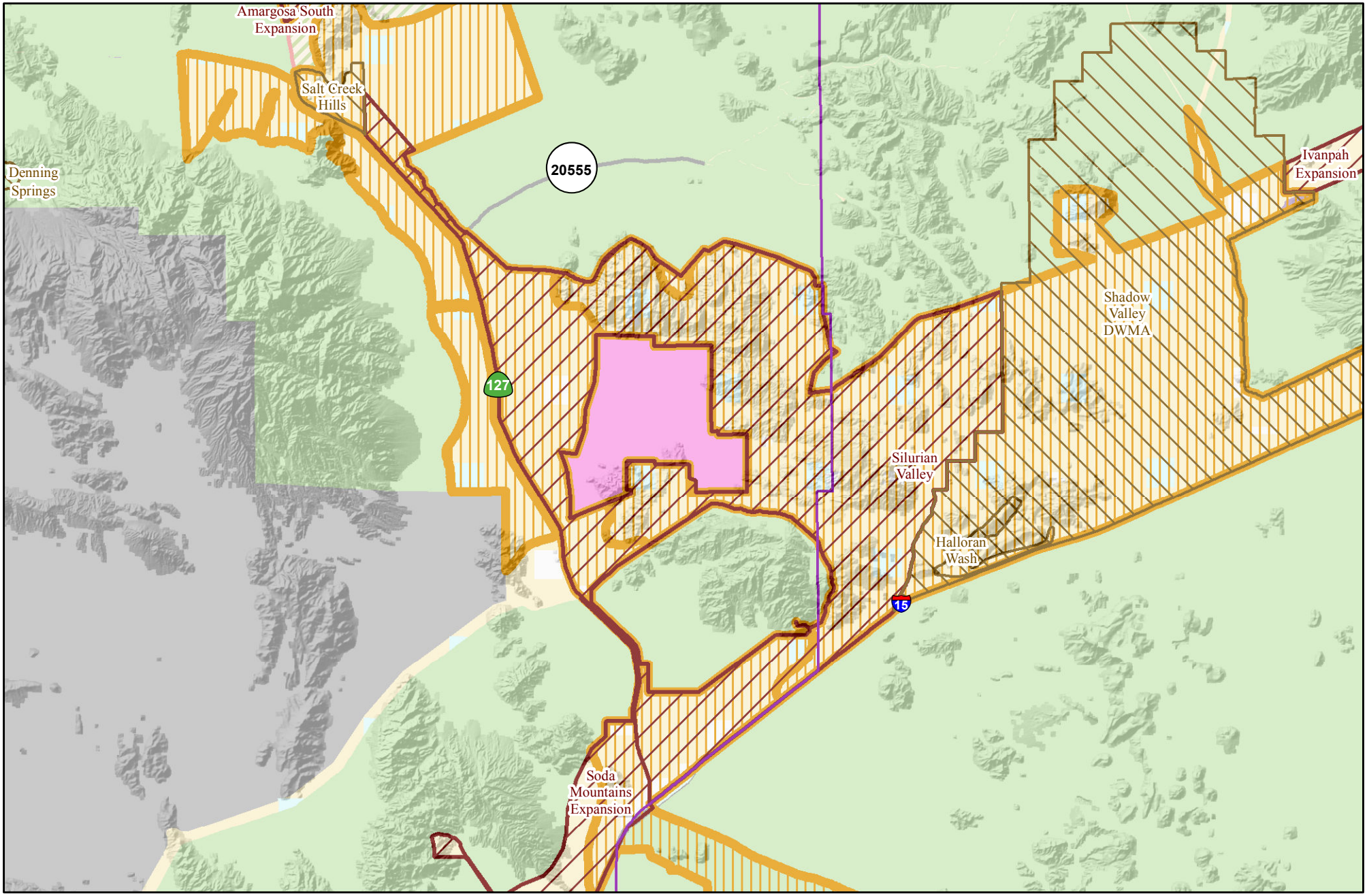
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Silurian Valley expansion of Shadow Valley



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Preferred Alternative ACECs

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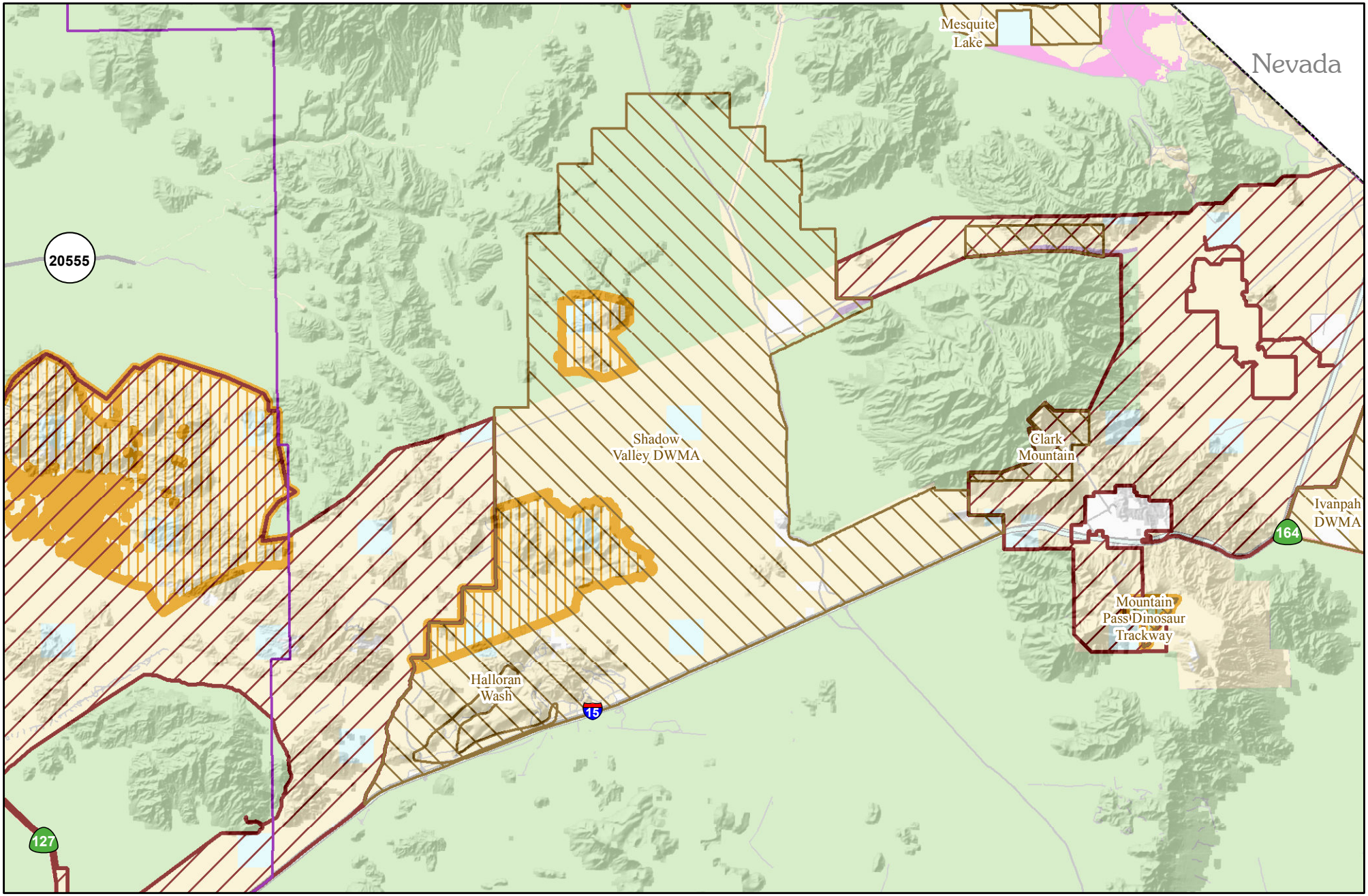
Shadow Valley



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Alternative 1 ACECs

Date Printed: 5/29/2013

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ACEC Layers

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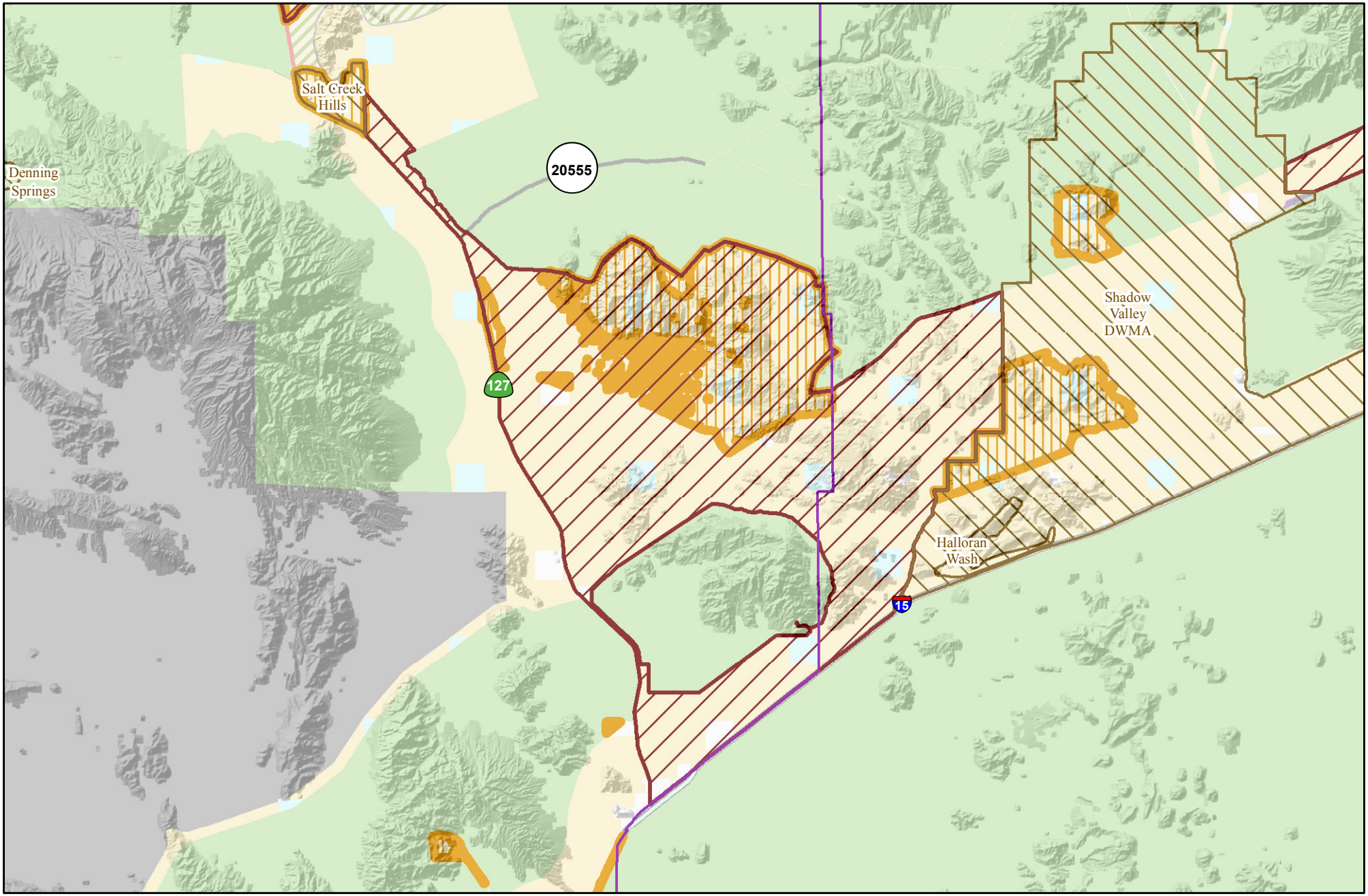
Silurian Valley expansion of Shadow Valley



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Alternative 1 ACECs

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Land Status

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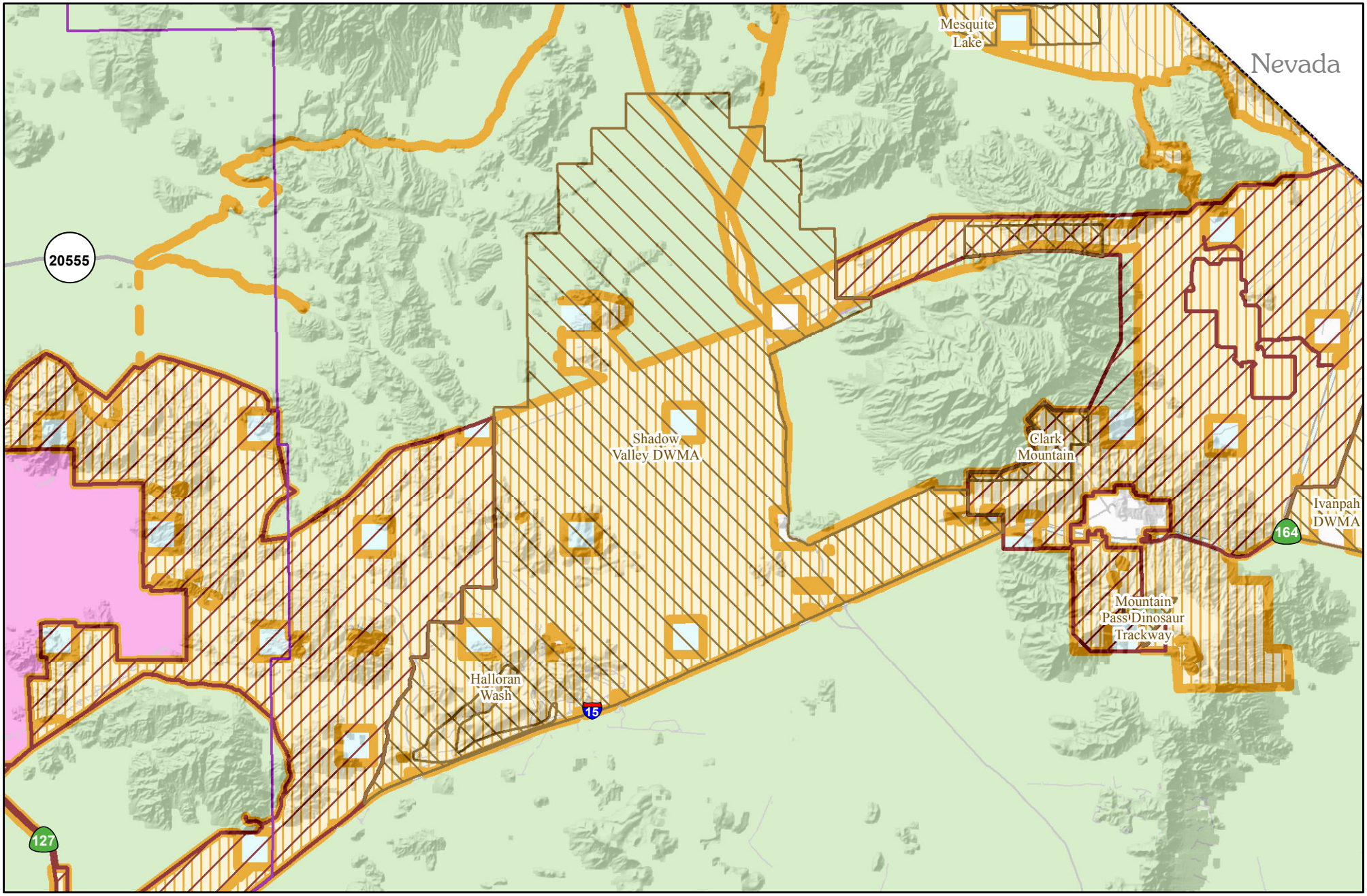
Shadow Valley



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Alternative 2 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
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- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
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Land Status

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GTLF

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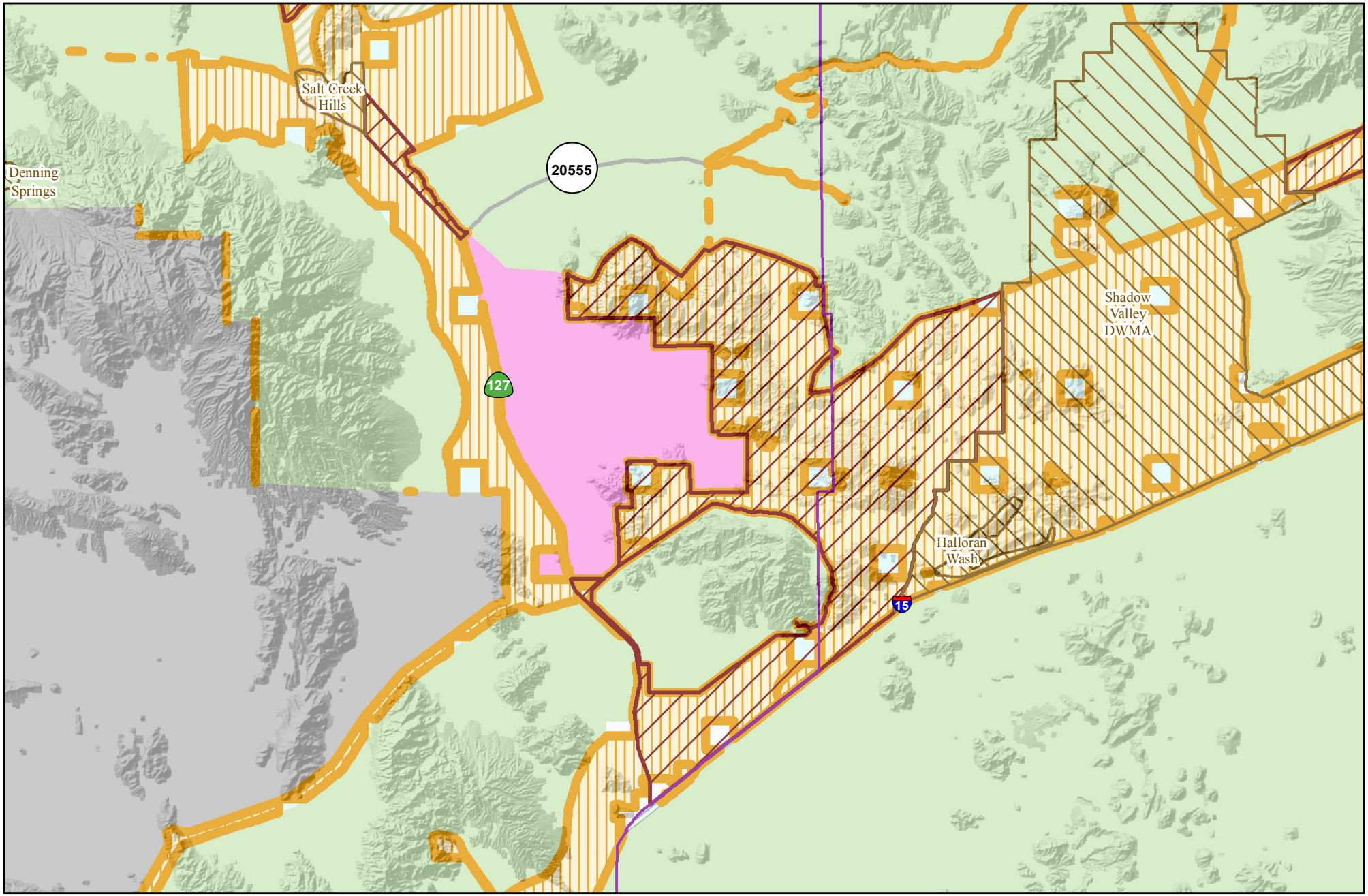
Silurian Valley expansion of Shadow Valley



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Alternative 2 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
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Land Status

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GTLF

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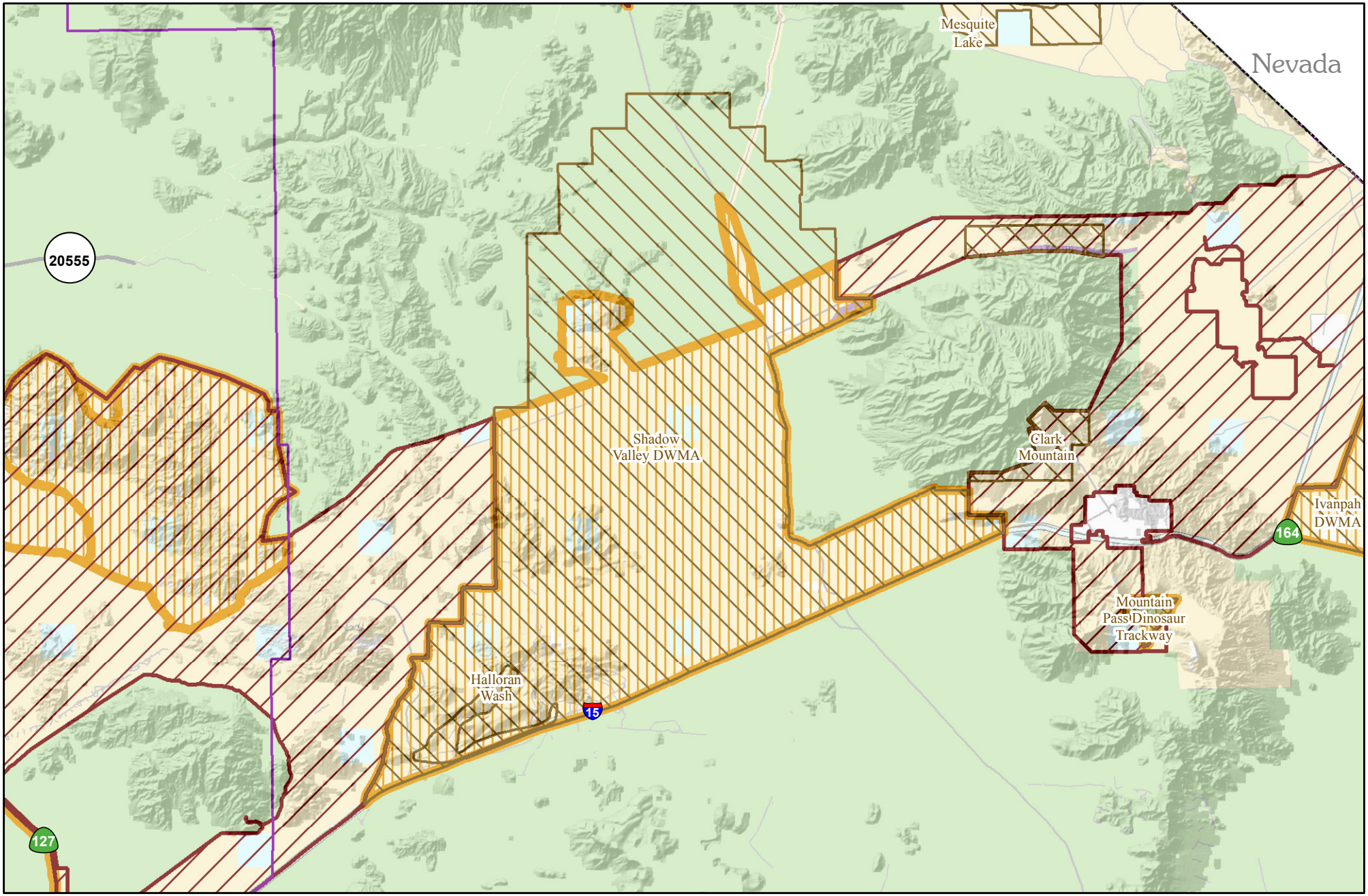
Shadow Valley



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7.5 Kilometers

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Alternative 3 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

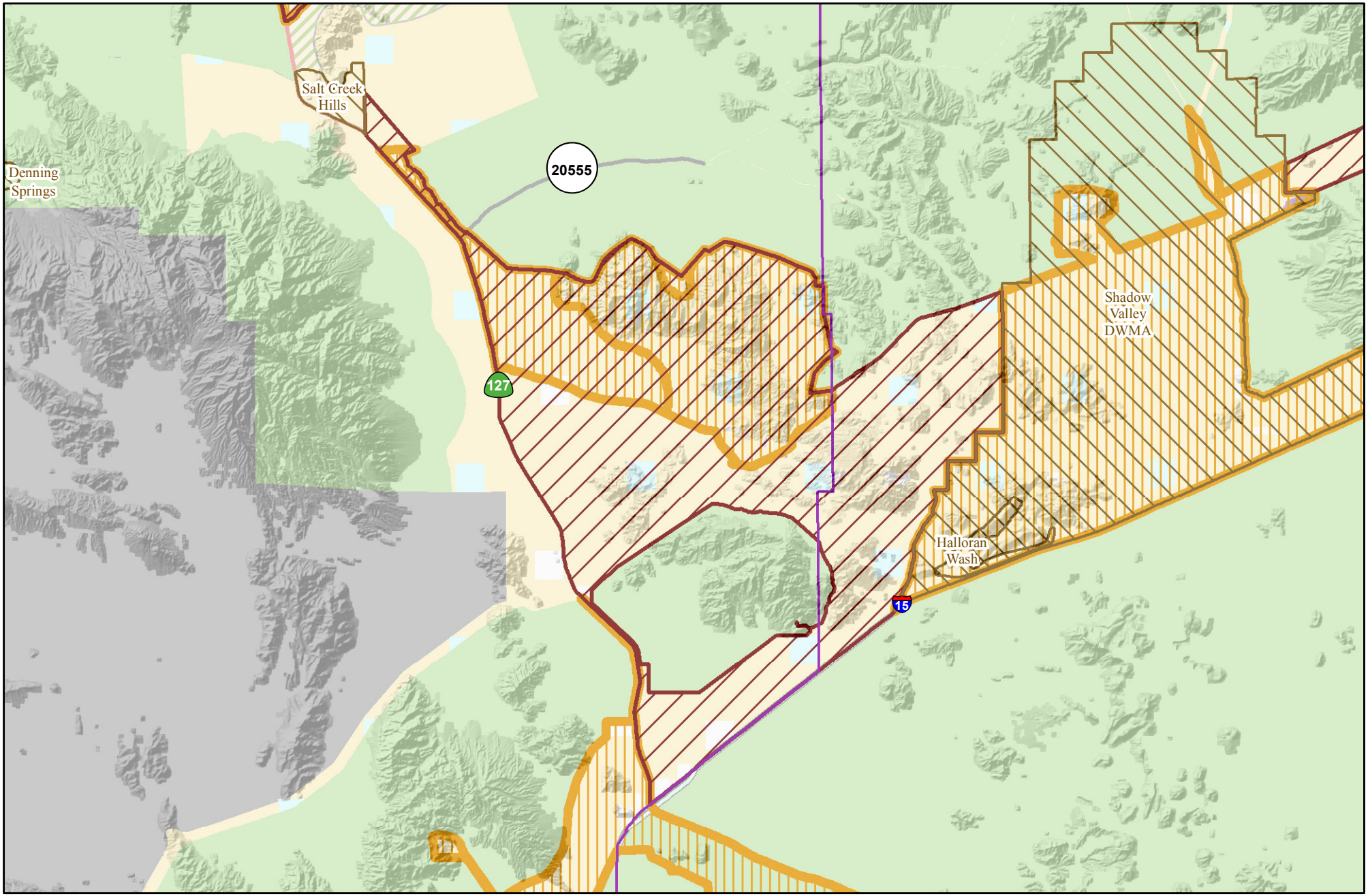
Land Status

- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF

- Interstate
- US Hwy
- CA Hwy
- County Hwy

Silurian Valley expansion of Shadow Valley



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9 Kilometers

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Alternative 3 ACECs

Date Printed: 5/29/2013

Prepared by BLM California State Office

ACEC Layers

- Existing ACEC
- Proposed ACEC
- Proposed NLCS
- Design Focus Areas
- Legislatively and Legally Protected
- Cities
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status

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GTLF

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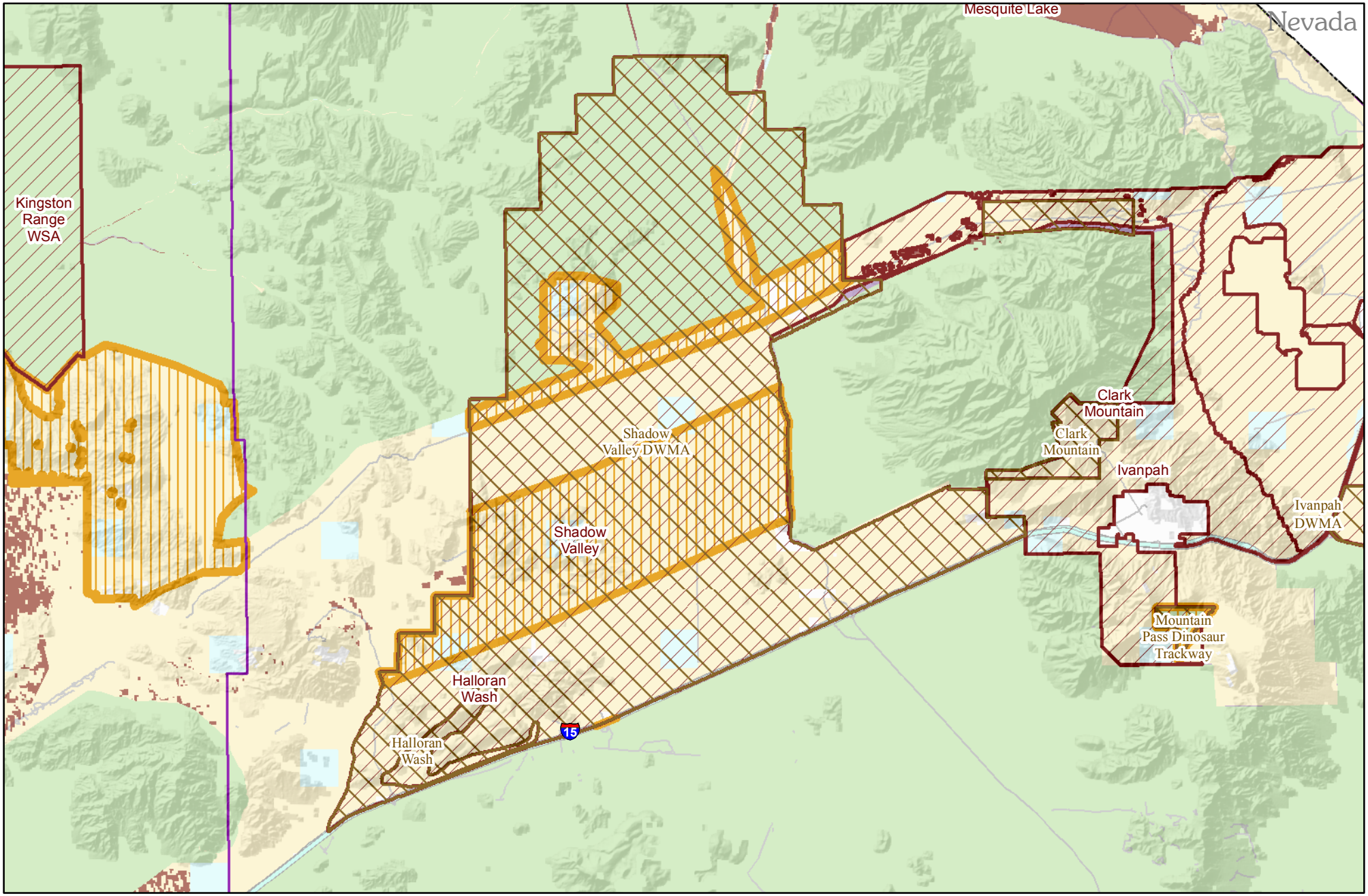
Shadow Valley



5 Miles

7 Kilometers

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Alternative 4 ACECs

Date Printed: 8/6/2014

Prepared by BLM California State Office

ACEC Layers
- Existing ACEC
- Proposed NLCS
- Proposed ACEC
- Proposed Wildlife Allocation
- Legislatively and Legally Protected

- Design Focus Areas
- Variance Lands
- OHV Areas
- CDCA Boundary
- DRECP Boundary
- BLM Field Office

Land Status
- Bureau of Land Management
- State
- Other Federal
- Military
- Private

GTLF
- Interstate
- US Hwy
- CA Hwy
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