

BOULDER CITY CONSERVATION EASEMENT UPDATE

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31 AUGUST 2026



MOJAVEMAX.COM



**desert conservation
PROGRAM**

BACKGROUND

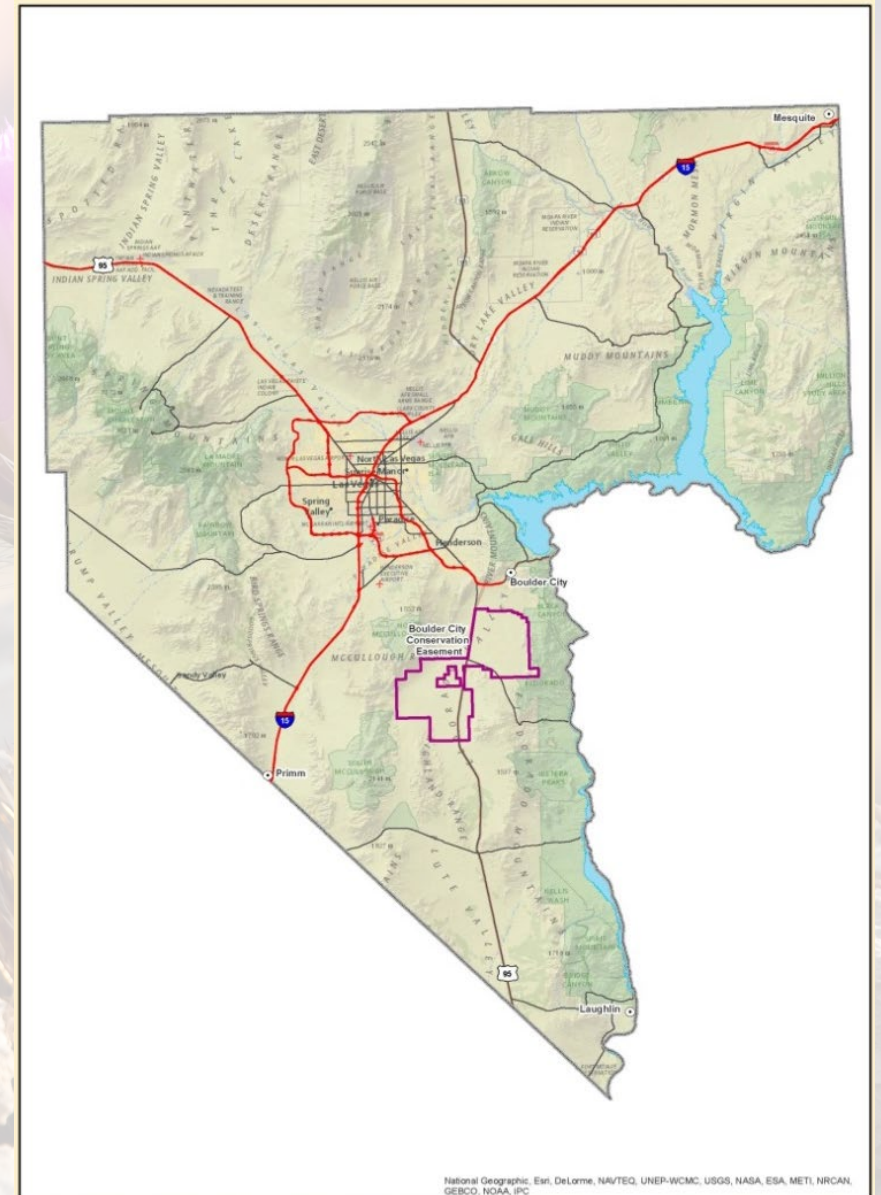


- Clark County acquired the easement in 1995 as a permit condition
- Purpose:

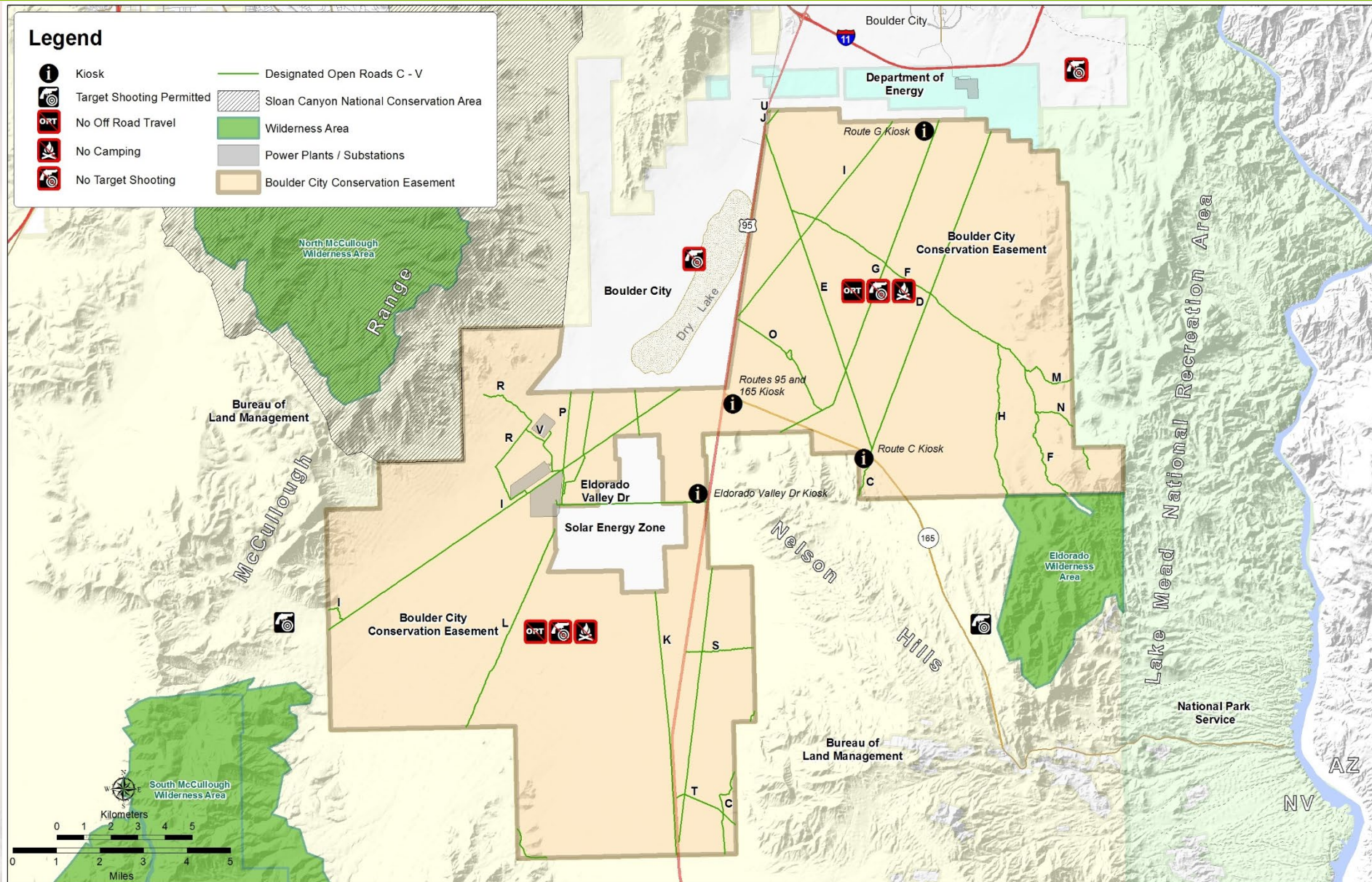
“...ensure that the property is retained in a natural condition, and to prevent any uses that will impair the conservation, protection, restoration and enhancement of the natural resource values, especially those values associated with habitat for the desert tortoise and other indigenous flora and fauna.”
- Boulder City Conservation Easement = BCCE or The Easement (within the DCP)

BACKGROUND

- Approximately 87,331 acres
- Bisected by U.S. 95 and S.R. 165
- Highly accessible to the public (95 miles of open roads)
- Creosote/white bursage community
- Limited use area
- Energy zone, substations, and switching yards
- 58 rights-of-way



BACKGROUND



MANAGEMENT ACTIVITIES



- Maintenance & Land Stewardship
 - Fencing
 - Tortoise guards
 - Tortoise culverts
 - Historical sites
 - Litter Removal
- Law Enforcement
- Weeds Management
- Monitor and work with energy developers



MANAGEMENT ACTIVITIES (INTERNAL)

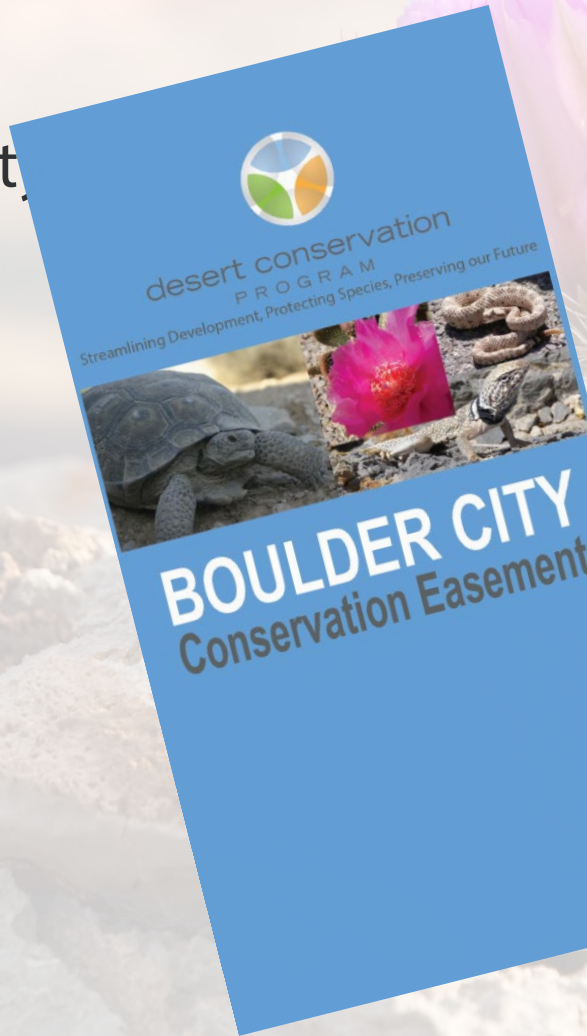


MANAGEMENT ACTIVITIES

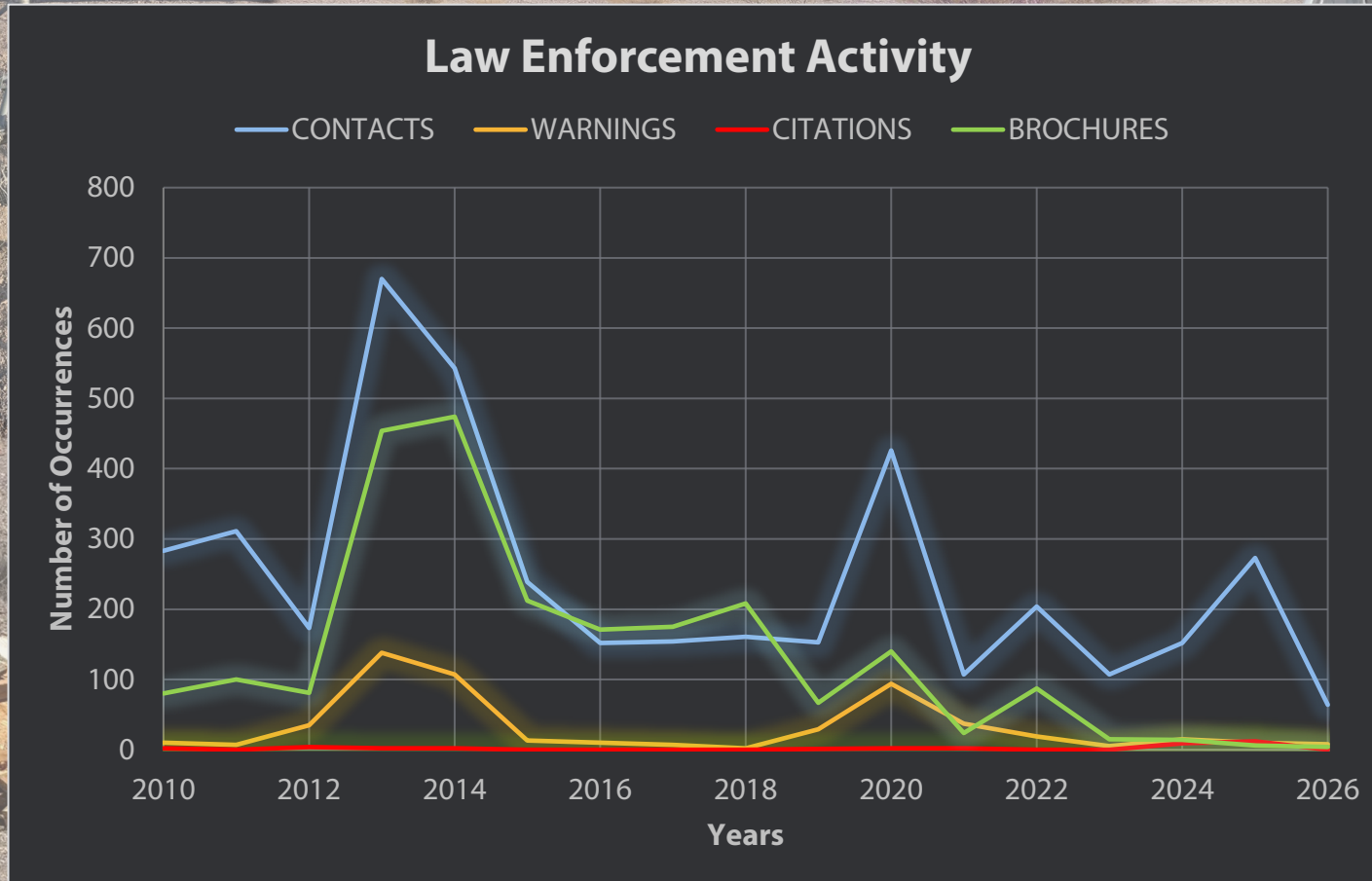


Goal: Support the conservation of the BCCE Reserve System through patrolling efforts and stakeholder engagement.

- Law enforcement by Boulder City Police Department
- Public contact & education outreach
- Warnings, citations
- Trash clean-up and species observation data
- Provide feedback to DCP on trends in use



LAW ENFORCEMENT



NOTABLE PROJECTS

- Telemetry desert tortoise monitoring
 - Desert tortoise predator studies
 - Weed inventory and treatment
 - Occupancy Monitoring
- Bat Acoustic Surveys
 - Subsidized Raven Management
 - Restoration & Illegal OHV Use
 - AIM for Desert Tortoise

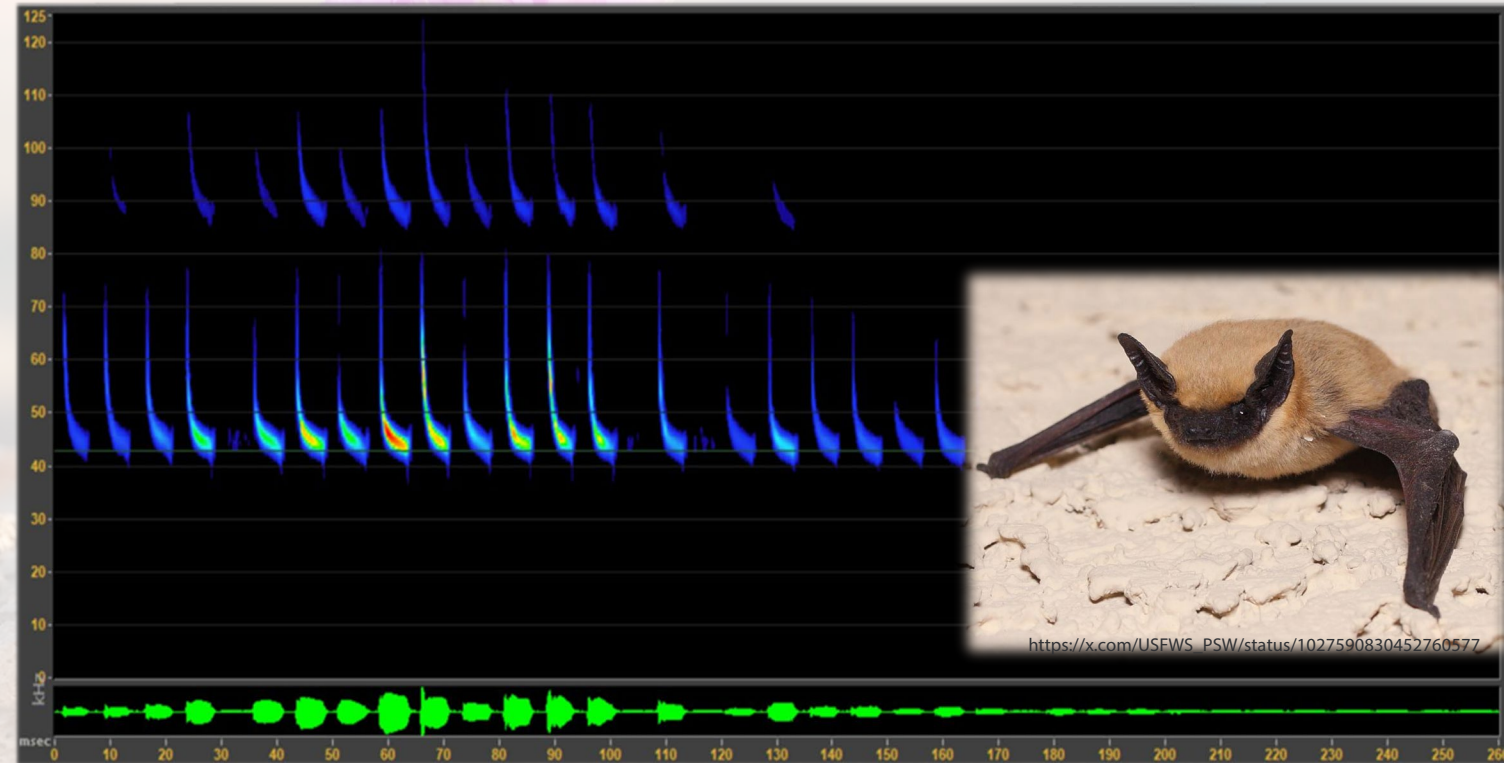


BAT ACOUSTIC SURVEYS

Goal: To better understand bat species presence and distribution within BCCE.

Methods:

- Acoustic detectors with elevated microphones, oriented horizontally towards attractants.
- Data analyzed via bat call analysis software and manual file vetting
- Data used to determine occurrence and relative activity levels among species and sites.



Canyon bat (*Parastrellus hesperus*) spectrogram, 6/3/2025, BCCE-12.

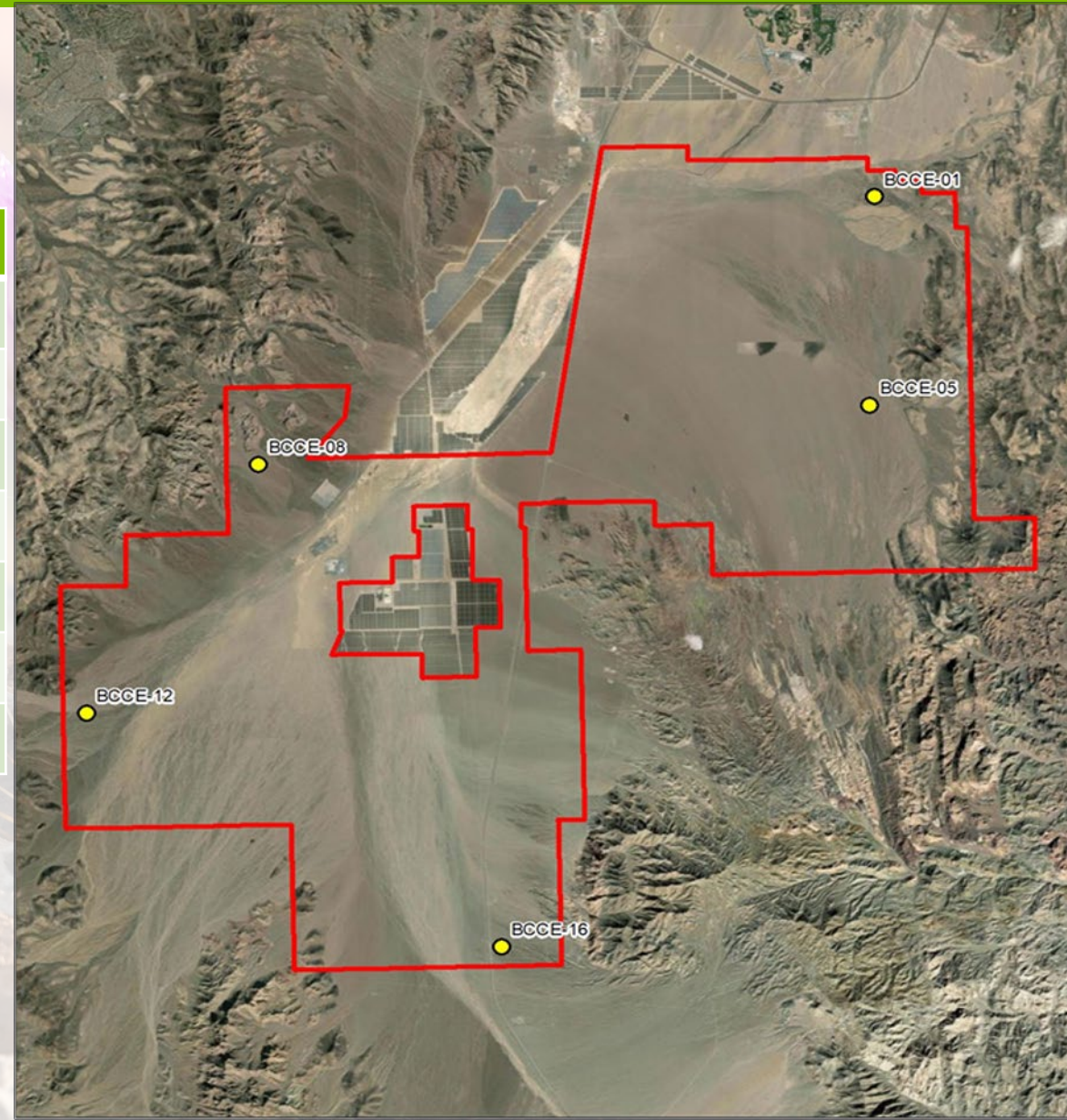
BAT ACOUSTIC SURVEYS



- Currently odd-numbered years, 5 locations
 - (2018, 2021, 2023, 2025)

Common Name	Scientific Name
California myotis	<i>Myotis californicus</i>
Canyon bat	<i>Parastrellus hesperus</i>
Brazilian free-tailed bat	<i>Tadarida brasiliensis</i>
Silver-haired bat (C)	<i>Lasionycteris noctivagans</i>
Western small-footed myotis (E)	<i>Myotis ciliolabrum</i>
Western yellow bat	<i>Lasiurus xanthinus</i>
Yuma myotis	<i>Myotis yumanensis</i>

- BCCE-12 & BCCE-08—highest activity (2025)
- Contact Stefanie Ferrazzano:
Stefanie.Ferrazzano@ClarkCountyNV.gov



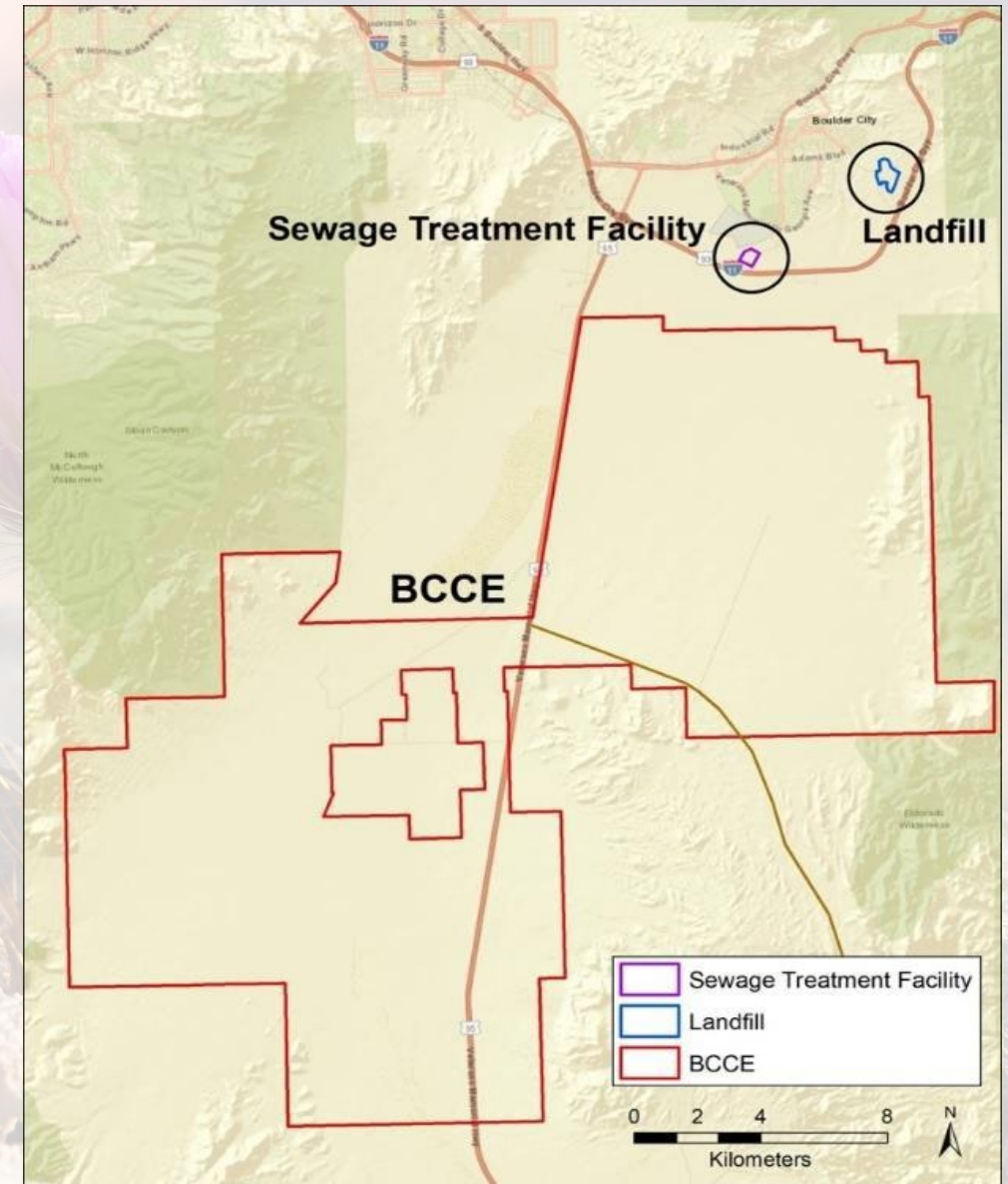
SUBSIDIZED RAVEN MANAGEMENT



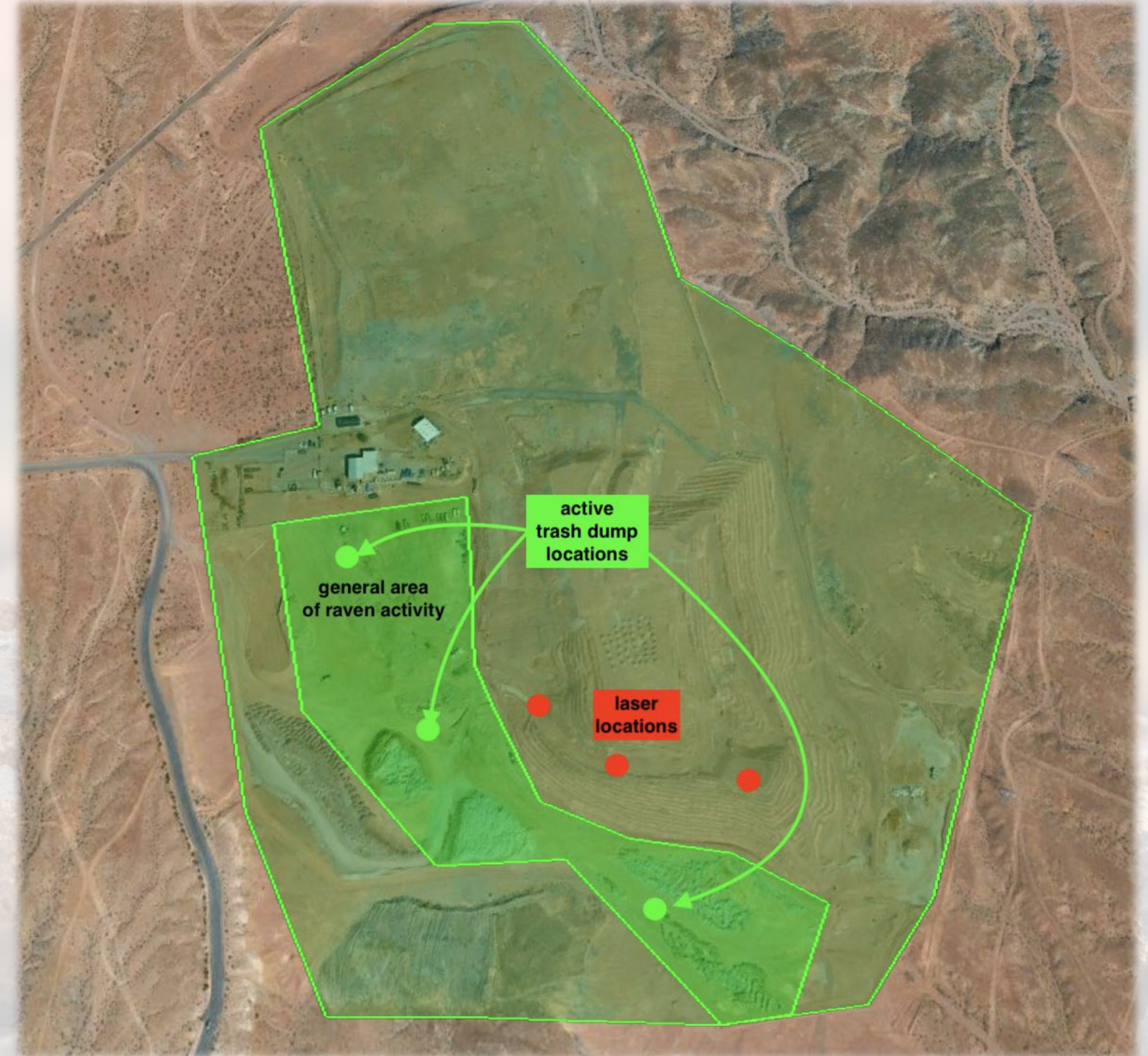
Goal: Mitigate adverse effects of raven subsidies on desert tortoise populations within the BCCE and surrounding habitats.

Project Activities Over 3 Years:

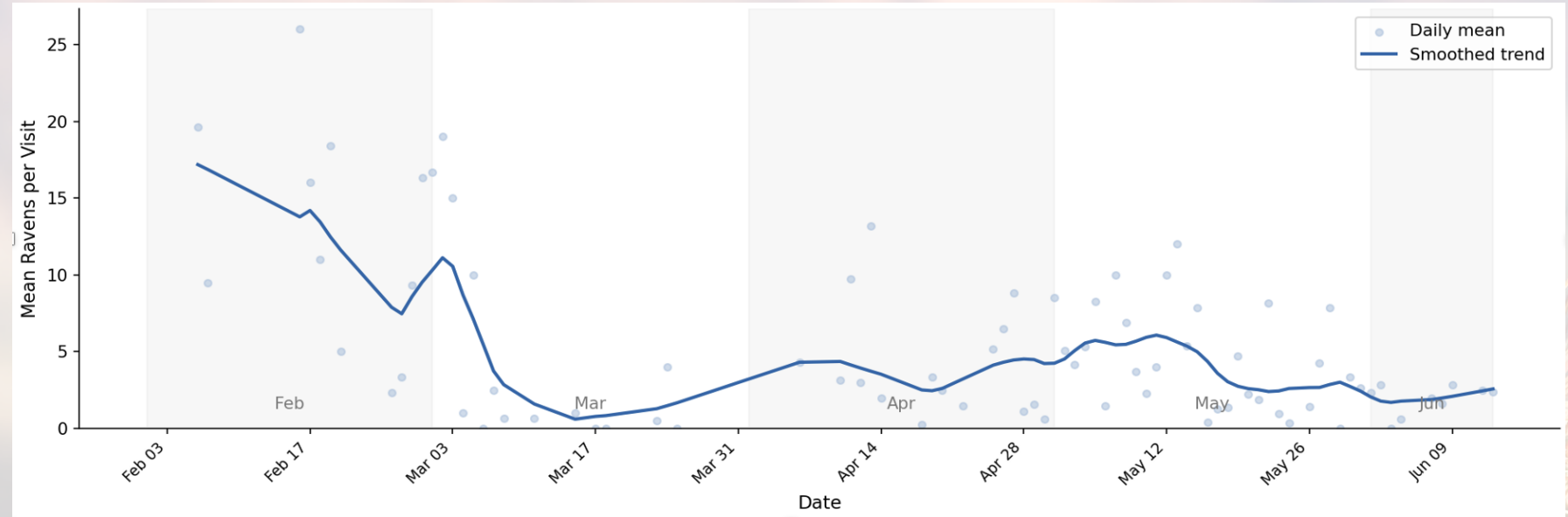
- Population Monitoring
 - Point count, nest surveys
- Active Hazing in BCCE
 - Techno torts
- Remote Egg Oiling
 - One nest within BCCE
- Subsidy denial – SMART Lasers
 - Landfill, Sewage treatment facility



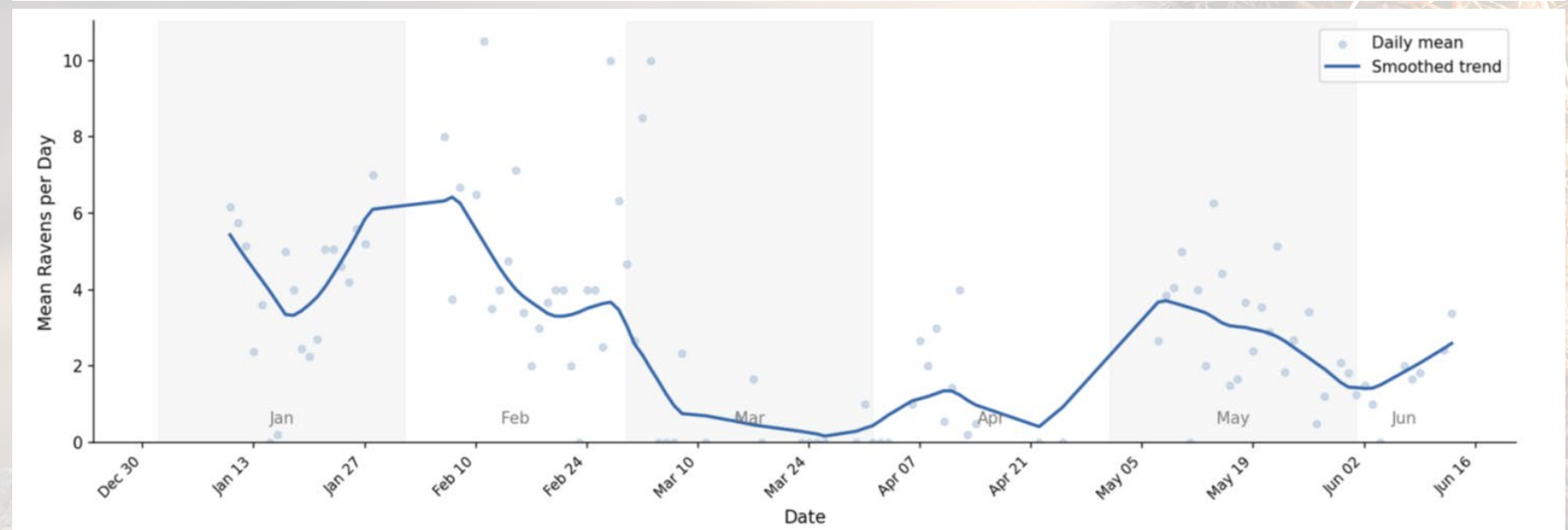
SUBSIDIZED RAVEN MANAGEMENT



SUBSIDIZED RAVEN MANAGEMENT



Boulder City
Landfill



Wastewater
Treatment Plant

RESTORATION & ILLEGAL OHV USE



Goal: Restore damaged habitat & deter future illegal OHV use.

- Near Route K-2 (illegal route)
- Silver cholla (*Cylindropuntia echinocarpa*) planting in October 2025
- 100 holes dug, 1+cuttings/hole
- Vertical mulch
- Continue monitoring



RESTORATION & ILLEGAL OHV USE



October 2025



April 2026

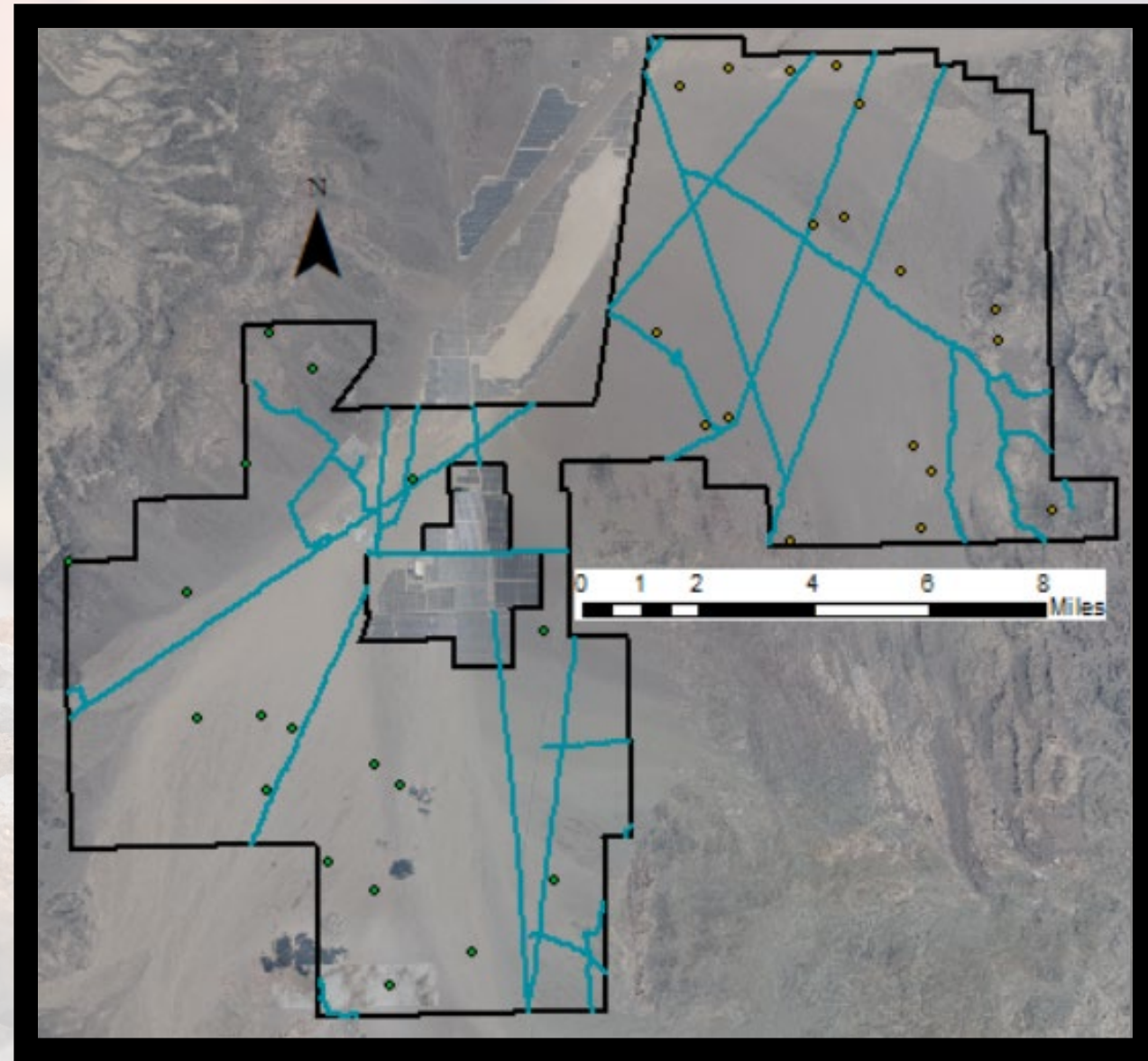
ASSESSMENT, INVENTORY, & MONITORING



Goal: Collect data that can be used to monitor the BCCE over time.

35 sites across the BCCE:

- Species Richness/Abundance
- Line Point Intercept
- Canopy Gap
- Vegetation Heights
- Plot Characterization
- Plot Observation
- Soil Pit/ Ecological Site Verification
- Soil Stability
- Forb Diversity



FUTURE GOALS/PROJECTS



- Continued Management of BCCE
 - Law Enforcement
 - Weed Management
 - Maintenance
- Restoration of Northern Boundary Area
 - Illegal OHV Activity
- Future Volunteer Events
 - Clean-ups
 - Restoration
 - BioBlitz



THANK YOU TO THE PERMITTEES



QUESTIONS?

