



**GENERAL BIOLOGICAL ASSESSMENT  
FOR  
ASSESSOR'S PARCEL NUMBER  
0496-011-76**

**LYNX CAT MOUNTAIN QUARRY  
SAN BERNARDINO COUNTY  
CALIFORNIA**

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## **1.0 Introduction**

Hernandez Environmental Services (HES) was contracted to prepare a General Biological Assessment (GBA) for an approximately 81.92-acre project site in the unincorporated San Bernardino County, California. The project site consists of a portion of Assessor's Parcel Number (APN) 0496-011-76.

### **1.1 Project Site Location**

The project site is located south of Roy Road and northwest of the intersection of Valley Wells Road and Santa Fe Avenue. The site is accessed via unnamed roads. The site is located within the unincorporated community of Hinkley, San Bernardino County, California. Specifically, the project site is located within section 1, township 10 north, range 4 west in the *Hinkley* United States Geological Survey (USGS) 7.5' topographic quadrangle. The center point latitude and longitude for the project site is 34.98464599, -117.24844167 (Figures 1 and 2).

### **1.2 Project Description**

The proposed project is an expansion of the Lynx Cat Mountain Quarry.

## **2.0 Methodology**

### **2.1 Literature Review**

HES conducted a literature review and reviewed aerial photographs and topographic maps of the project site and surrounding areas. The *Hinkley* USGS topographic quad and surrounding eight quads were used to identify sensitive species with the California Natural Diversity Data Base (CNDDDB), the U.S. Fish and Wildlife Service (USFWS) Endangered Species Lists, and the California Native Plant Society (CNPS) rare plant lists to obtain species information for the project area. The CNDDDB and USFWS critical habitat databases were utilized, together with Geographic Information System (GIS) software, to locate the previously recorded locations of sensitive plant and wildlife occurrences and designated critical habitat and determine the distance from the project site.

### **2.2 Field Survey**

On September 20, 2023, HES conducted a field survey of the project site. The ambient temperature at 10:00 A.M. was 56 degrees Fahrenheit, sunny, with winds ranging from zero to three miles per hour to the east. The purpose of the field survey was to document the existing habitat conditions, obtain plant and animal species information, view the surrounding land uses, assess the potential for state and federal waters, assess the potential for wildlife movement corridors, and assess the presence of constituent elements for critical habitat, if present.



Linear transects spaced approximately 50 to 100 feet apart were walked across the project site for 100 percent coverage. All species observed were recorded. Global Positioning System (GPS) waypoints were taken to delineate specific habitat types, species locations, state or federal waters, and any other information that would be useful for the assessment of the project site. A comprehensive list of all plant and wildlife species that were detected during the field survey within the project site is included in Appendix A. Sensitive plant and wildlife species with the potential to occur within the project area are listed in Appendix B. Representative site photographs were taken and are included within Appendix D.

### **3.0 Existing Conditions and Results**

#### **3.1 Environmental Setting**

The project site consists of vacant land directly west of an active mining quarry. There are disturbed areas throughout the site in the form of dirt roads, previously graded areas, and a few small dirt piles. The site is predominantly vegetated with rabbit thorn bush scrub habitat. Open desert occurs to the north, south, and west of the site. The Lynx Cat Mountain Quarry access road and office is located along the southeast border of the site. The site is relatively flat with onsite elevations ranging from 2,099 feet above mean sea-level (AMSL) to 2,142 feet AMSL.

#### **3.2 Soils**

According to the USDA Web Soil Survey, one soil type occurs on the project site. The onsite soils are composed of Cajon sand (113), 2 to 9 percent slopes (Appendix E).

#### **3.3 Plant and Habitat Communities**

The project site consists of two habitat types, including approximately 74.97 acres of creosote bush scrub and 6.95 acres of disturbed habitat (Figure 3).

##### **Rabbit Thorn Bush Scrub**

The project site contains approximately 74.97 acres of creosote bush scrub. This habitat on site is dominated by rabbit thorn (*Lycium pallidum* var. *oligospermum*). Other plant species observed in this habitat include white bursage (*Ambrosia dumosa*), cheesbush (*Ambrosia salsola*), bristly fiddleneck (*Amsinckia tessellate*), big galleta (*Hilaria rigida*), Mediterranean grass (*Schismus* sp.), and manybristle chinchweed (*Pectis papposa*).

##### **Disturbed**

The project site contains 6.95 acres of disturbed areas. This habitat includes areas that are mostly if not entirely devoid of vegetation. Vegetation in these areas is mostly non-native and includes Russian thistle (*Salsola tragus*). The disturbed areas on site consist of graded areas and roads.

### 3.4 Wildlife

The general wildlife species documented on the project site or within the vicinity of the site include desert iguana (*Dipsosaurus dorsalis*), desert horned lizard (*Phrynosoma platyrhinos calidiarum*), and say's phoebe (*Sayornis saya*).

### 3.5 Regional Connectivity/Wildlife Movement

Wildlife movement corridors can be local or regional in scale; their functions may vary temporally and spatially based on conditions and species present. Wildlife corridors represent areas where wildlife movement is concentrated due to natural or anthropogenic constraints. Local corridors provide access to resources such as food, water, and shelter. Animals use these corridors, which are often hillsides or riparian areas, to move between different habitats. Regional corridors provide these functions and link two or more large habitat areas. They provide avenues for wildlife dispersal, migration, and contact between otherwise distinct populations.

The project site is not located within a designated wildlife corridor or linkage. The project site is located directly south of active mining activities. There is vacant open desert to the north and west of the project site. There are no topographic features on the site that would function as a wildlife corridor. The project site does not serve a function in local wildlife movement.

### 3.6 Sensitive Biological Resources

According to the CNDDB and the CNPS, a total of 11 sensitive species of plants and one sensitive habitat have the potential to occur on or within the vicinity of the project area. According to CNDDB a total of 16 sensitive species of wildlife have the potential to occur on or within the vicinity of the project area. These include those species listed or candidates for listing by the U. S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW) and California Native Plant Society (CNPS). All habitats with the potential to be used by sensitive species were evaluated during the site visit and a determination has been made for the presence or probability of presence within this report. All sensitive species within the *Hinkley* USGS topographic quad and eight surrounding quads of project area were reviewed in CNDDB, and a complete list of those species are discussed within Appendix B. All sensitive plant species within the *Hinkley* USGS topographic quad were reviewed in the CNPS Rare Plant Inventory, a complete list of those species are discussed within Appendix C. This section will address those species listed as Candidate, Rare, Threatened, or Endangered under the state and federal endangered species laws, and any species found to occur on site. All other special status species are addressed within Appendix B and C.

### 3.6.1 Sensitive Plant Resources

Below are descriptions of the special status plant species found to occur or have a potential to occur on site:

#### **Chaparral sand-verbena**

Chaparral sand-verbena (*Abronia villosa* var. *aurita*) is ranked 1B.1 in the CNPS Rare Plant Inventory. It is found in sandy areas of chaparral, coastal scrub, and desert dunes habitats. No habitat for this species is present on the project site. **This species is not present.**

#### **Lane Mountain milk-vetch**

Lane Mountain milk-vetch (*Astragalus jaegerianus*) is a federally listed Endangered species and is ranked 1B.1 in the CNPS Rare Plant Inventory. This species habitats include Joshua tree woodland and Mojavean desert scrub. This species prefers dry, stony hillsides and desert mesas, in granite sand and gravel. Commonly with Joshua trees, usually under shrubs. The project site is below the elevation range for this species. **This species is not present.**

#### **Parish's Phacelia**

Parish's phacelia (*Phacelia parishii*) is ranked 1B.1 in the CNPS Rare Plant Inventory. This species habitats include alkali playa and Mojavean desert scrub. It prefers alkaline flats and slopes and clay soils. No suitable habitat for this species is present on site. **This species is not present.**

### 3.6.2 Sensitive Wildlife Resources

According to CNDDDB a total of four wildlife species listed as state and/or federal Threatened, Endangered, Candidate have a potential to occur on site. Below are descriptions of these species and other special status species found to have a potential to occur on site:

#### **Arroyo Toad**

Arroyo Toad (*Anaxyrus californicus*) is a federally listed Endangered Species and a CDFW Species of Special Concern. The most favorable breeding habitat for this species consists of slow-moving shallow pools, nearby sandbars, and adjacent stream terraces. Its habitat includes desert wash, riparian scrub, riparian woodland, south coast flowing waters, and south coast standing waters. There is no habitat for this species on the project site. **This species is not present.**

#### **Burrowing owl**

Burrowing owl (*Athene cunicularia*) is a CDFW Species of Special Concern. This species is a subterranean nester, dependent upon burrowing mammals such as the California ground squirrel. It inhabits open, dry annual or perennial grasslands and scrublands characterized by low-growing

vegetation. No burrowing owl or burrowing owl sign was observed on site during the general biological survey or focused desert tortoise surveys. No burrowing mammals were observed on site. **This species is not present.**

### **Western snowy plover**

Western snowy plover (*Charadrius alexandrinus nivosus*) is federally listed Threatened Species and a CDFW Species of Special Concern. It is found in great basin standing waters, sand shore, and wetland. This species needs sandy, gravelly, or friable soils for nesting. The project site does not contain suitable habitat for this species. **This species is not present.**

### **Western yellow-billed cuckoo**

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is a federally listed Threatened and state listed Endangered Species. This species typically nests in riparian jungles of willows, often mixed with cottonwoods, with a lower story of blackberry, nettles, or wild grape. It is found in riparian forest habitat. The project site does not contain suitable habitat for this species. **This species is not present.**

### **Desert tortoise**

The desert tortoise (*Gopherus agassizii*) is a federally and state listed Threatened Species. This species is most common in desert scrub, desert wash, and Joshua tree habitats; occurs in almost every desert habitat. It prefers Creosote bush habitat with large annual wildflower blooms. Focused desert tortoise surveys were performed on the site in 2023. Suitable desert tortoise burrows and desert tortoise sign were found during focused surveys. **This species is present.**

### **Loggerhead shrike**

Loggerhead shrike (*Lanius ludovicianus*) is a CDFW Species of Special Concern. This species habitats include broadleaved upland forest, desert wash, Joshua tree woodland, Mojavean desert scrub, pinon and juniper woodlands, riparian woodland, and Sonoran desert scrub. There is suitable habitat present on site for this species. **This species has the potential to occur on site.**

### **Yuma Ridgway's Rail**

The Yuma Ridgway's rail (*Rallus obsoletus yumanensis*) is a federal listed Endangered and state listed Threatened Species. This species is found in freshwater marsh, swamp, and wetland habitats. This species is known to nest in freshwater marshes along the Colorado River and along the south and east ends of the Salton Sea. It prefers stands of cattails and tules dissected by narrow channels of flowing water. The project site does not contain suitable habitat for this species. **This species is not present.**

### **Mohave Tui Chub**

The Mohave tui chub (*Siphateles bicolor mohavensis*) is a federal and state listed Endangered Species. It is found in aquatic, and artificial standing and flowing waters. This species is endemic

to the Mojave River basin, adapted to alkline mineralized water. It needs deep pools, ponds, or slough-like areas and vegetation for spawning. There is no habitat for this species on the project site. **This species is not present.**

### **American badger**

American badger is a CDFW Species of Special Concern. This species habitats include alkali marsh, alkali playa, alpine, alpine dwarf scrub, brackish marsh, broadleaved upland forest, chaparral, chenopod scrub, cismontane woodland, closed-cone coniferous forest, coastal bluff scrub, coastal dunes, and coastal prairie. It is most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. **This species has the potential to be present.**

### **Le Conte's thrasher**

Le Conte's thrasher (*Toxostoma lecontei*) is a CDFW Species of Special Concern. This species is a desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats. Suitable habitat occurs on site. **This species has the potential to be present.**

### **Mohave ground squirrel**

Mohave ground squirrel (*Xerospermophilus mohavensis*) is a state listed Threatened species. This species habitats include chenopod scrub, Joshua tree woodland, and Mojavean desert scrub. The project site is directly adjacent to active mining activities. The site has little shrub diversity and has disturbed areas throughout in the form of dirt roads and graded areas. The project site does not provide suitable habitat for this species. **This species is not present.**

## **3.7 Critical Habitat**

Critical habitat is designated by USFWS for endangered and threatened species per the federal ESA (16 U.S.C. § 1533 (a)(3)), and to the extent prudent and determinable. Special management of critical habitat, including measures for water quality and quantity, host animals and plants, food availability, pollinators, sunlight, and specific soil types is required to ensure the long-term survival and recovery of the identified species. Critical habitat designation delineates all suitable habitat for the species. The project site is not located within federally designated critical habitat.

## **3.8 Nesting Birds**

Migratory non-game native bird species are protected under the federal Migratory Bird Treaty Act. Additionally, Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests. The project site contains shrubs that can be utilized by nesting birds and raptors during the nesting bird season of February 1 through September 15.

### **3.9 Jurisdictional Waters**

The project site does not contain CDFW, United States Army Corps of Engineers (USACE), and Regional Water Quality Control Board (RWQCB) jurisdictional waters. Furthermore, no wetlands or vernal pools occur on site.

### **4.0 Project Impacts**

#### **4.1 Impacts to Habitats**

The proposed mine expansion would impact the entire approximately 81.92-acre project site. The project site includes 74.97 acres of rabbit thorn bush scrub and 6.95 acres of disturbed habitat.

#### **4.2 Impacts to Sensitive Species**

The following sensitive species were found on the project site or have the potential to occur on the project site:

##### **4.2.1 Impacts to Sensitive Plant Resources**

No sensitive plant species have the potential to occur on site. The proposed mine expansion is not expected to result in impacts to sensitive plant species.

##### **4.2.2 Sensitive Wildlife Resources**

The following sensitive wildlife species have a potential to occur on site:

##### **Desert tortoise**

Desert tortoise burrows and sign were found on site during focused desert tortoise surveys performed in 2023. The proposed mine expansion may result in impacts to this species.

##### **Loggerhead shrike**

There is potential habitat for the Loggerhead shrike in the scrub on site. This species has the potential to be present. Implementation of the measures identified for nesting birds in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

##### **American badger**

American badger is a CDFW Species of Special Concern. This species has the potential to occur on site. Implementation of the measures outlined in the Recommendations section will ensure impacts to this species remain less than significant.



**Le Conte's thrasher**

There is potential habitat for Le Conte's thrasher in the scrub on site. This species has the potential to be present. Implementation of the measures identified for nesting birds in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

**4.3 Impacts to Nesting Birds**

Potential impacts to nesting birds may occur if vegetation removal occurs during the bird nesting season of February 1 through September 15. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to nesting birds are less than significant.

**4.4 Impacts to Critical Habitat**

The project site is not located within designated federal critical habitat. Therefore, no impacts to critical habitat are expected.

**4.5 Impacts to Wildlife Movement Corridors**

No wildlife movement corridors were found to be present on the project site. No impacts are expected.

**4.6 Conflict with Local Policies or Ordinances Protecting Biological Resources**

The San Bernardino County Development Code Section 88.01.060 provides regulations for the removal or harvesting of specified desert native plants in order to preserve and protect the plants and to provide for the conservation and wise use of desert resources. Per Section 88.01.060 of the San Bernardino County Development Code the following desert native plants or any part of them, except the fruit shall not be removed except under a Tree or Plant Removal Permit:

(1) The following desert native plants with stems two inches or greater in diameter or six feet or greater in height:

(A) *Dalea spinosa* (smoketree).

(B) All species of the genus *Prosopis* (mesquites).

(2) All species of the family Agavaceae (century plants, nolinias, yuccas).

(3) Creosote Rings, ten feet or greater in diameter.

(4) All Joshua trees.

(5) Any part of any of the following species, whether living or dead:

- (A) *Olneya tesota* (desert ironwood).
- (B) All species of the genus *Prosopis* (mesquites).
- (C) All species of the genus *Cercidium* (palos verdes).

Section 88.01 requires the issuance of a permit prior to the removal of regulated trees and plants. No desert native plants regulated under Section 88.01.060 of the San Bernardino Development Code are present on the site. No conflicts with local policies or ordinances are expected.

#### **4.7 Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation Plan**

The project site is located within the Desert Renewable Energy Conservation Plan (DRECP). The project is located within the BLM Superior-Cronese Area of Critical Environmental Concern (ACEC). However the proposed project occurs within private lands and according to the DRECP BLM Land Use Plan Amendment (LUPA) “Nonfederal lands within the boundaries of BLM LUPA land use allocations are not affected by the LUPA” (LUPA-LANDS-4). Therefore, the proposed project would not be anticipated to conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

#### **4.8 State and Federal Drainages**

No state or federal jurisdictional drainages occur on site. The proposed project would not result in impacts to jurisdictional drainages.

#### **5.0 Recommendations**

Based upon the findings of this report, it is recommended that the following studies or surveys be performed as part of the project.

##### Nesting Birds

- It is recommended that vegetation removal be conducted outside of the nesting season for migratory birds to avoid direct impacts.
- If vegetation removal will occur during the migratory bird nesting season, between February 1 and September 15, pre-construction nesting bird surveys shall be performed within three days prior to vegetation removal.



- If active nests are found during nesting bird surveys, they shall be flagged. A 250-foot buffer shall be fenced around songbird nests and a 500-foot buffer shall be fenced around raptor nests.

### Sensitive Wildlife

- The mitigation measures for nesting birds outlined above will ensure no impacts to loggerhead shrike and Le Conte's thrasher occur.
- A biological monitor should be present on site during all initial ground disturbing activities to ensure no impacts to American badger, occur. If American badger is found on site the biological monitor will have the authorization to stop all work and allow the sensitive wildlife to leave the site.
- In order to establish appropriate avoidance and minimization measures and/or mitigation measures for desert tortoise HES recommends that consultation should be initiated with the Bureau of Land Management, USFWS, and the CDFW prior to commencing any ground disturbing activities in the project area.

## 6.0 Certification

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Date 2/20/2024

Signed \_\_\_\_\_

PROJECT MANAGER

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\_\_\_\_\_

Associate Biologist

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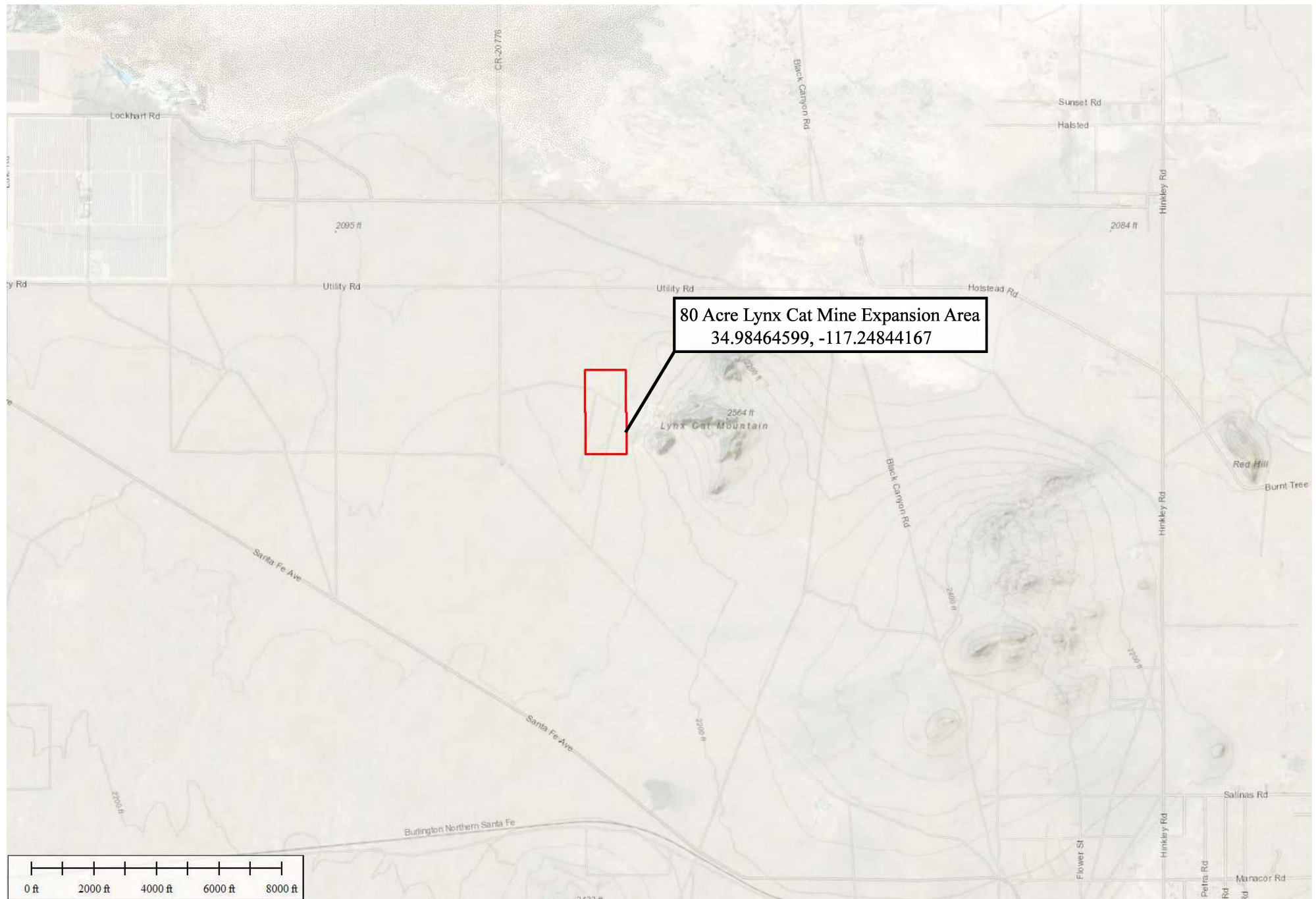
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## FIGURES



**Figure 1**

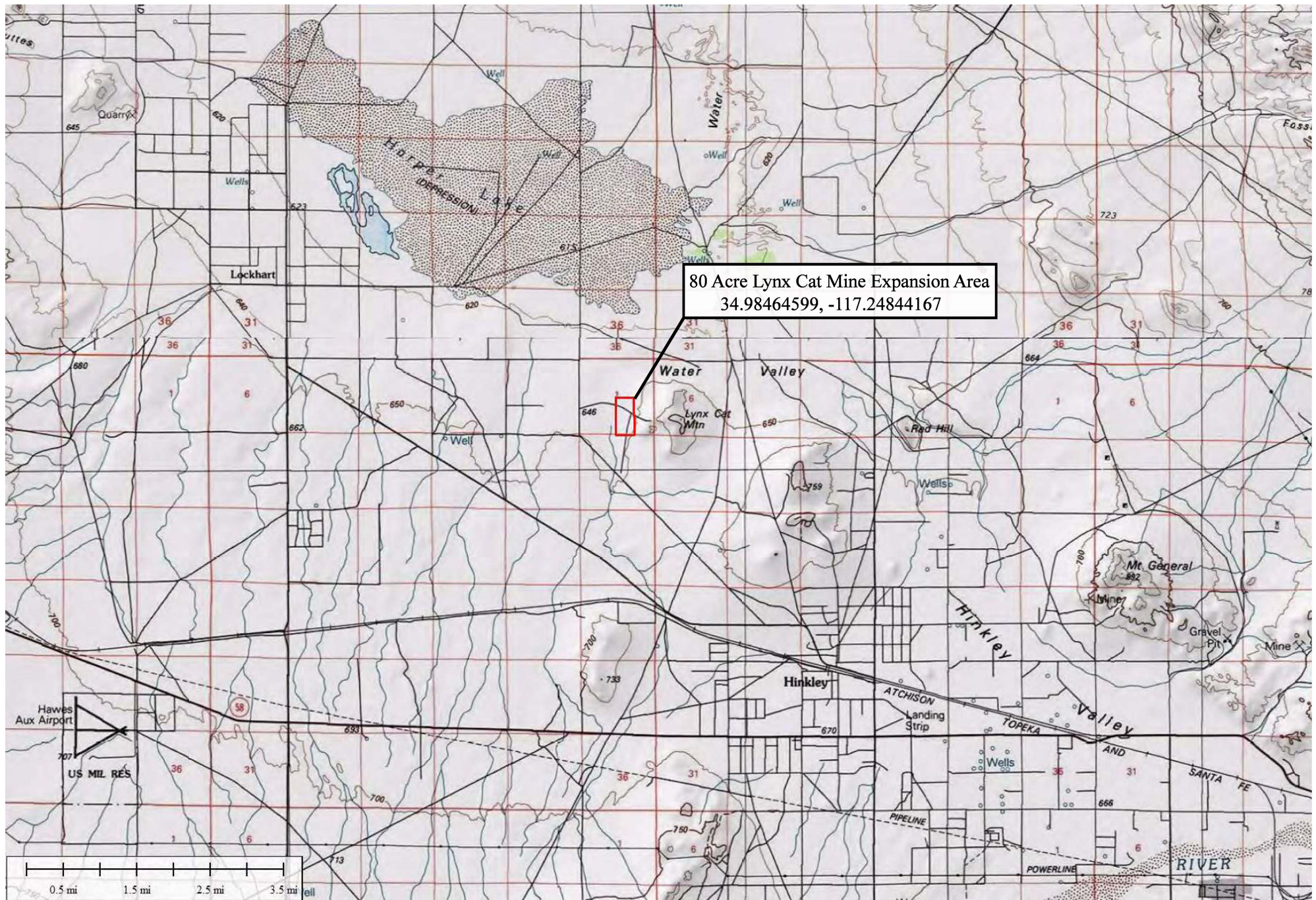
Location Map  
80 Acre Lynx Cat Mine Expansion Area  
Hinkley, San Bernardino County, California

**Legend**

 Project Site Boundary







**Figure 2**

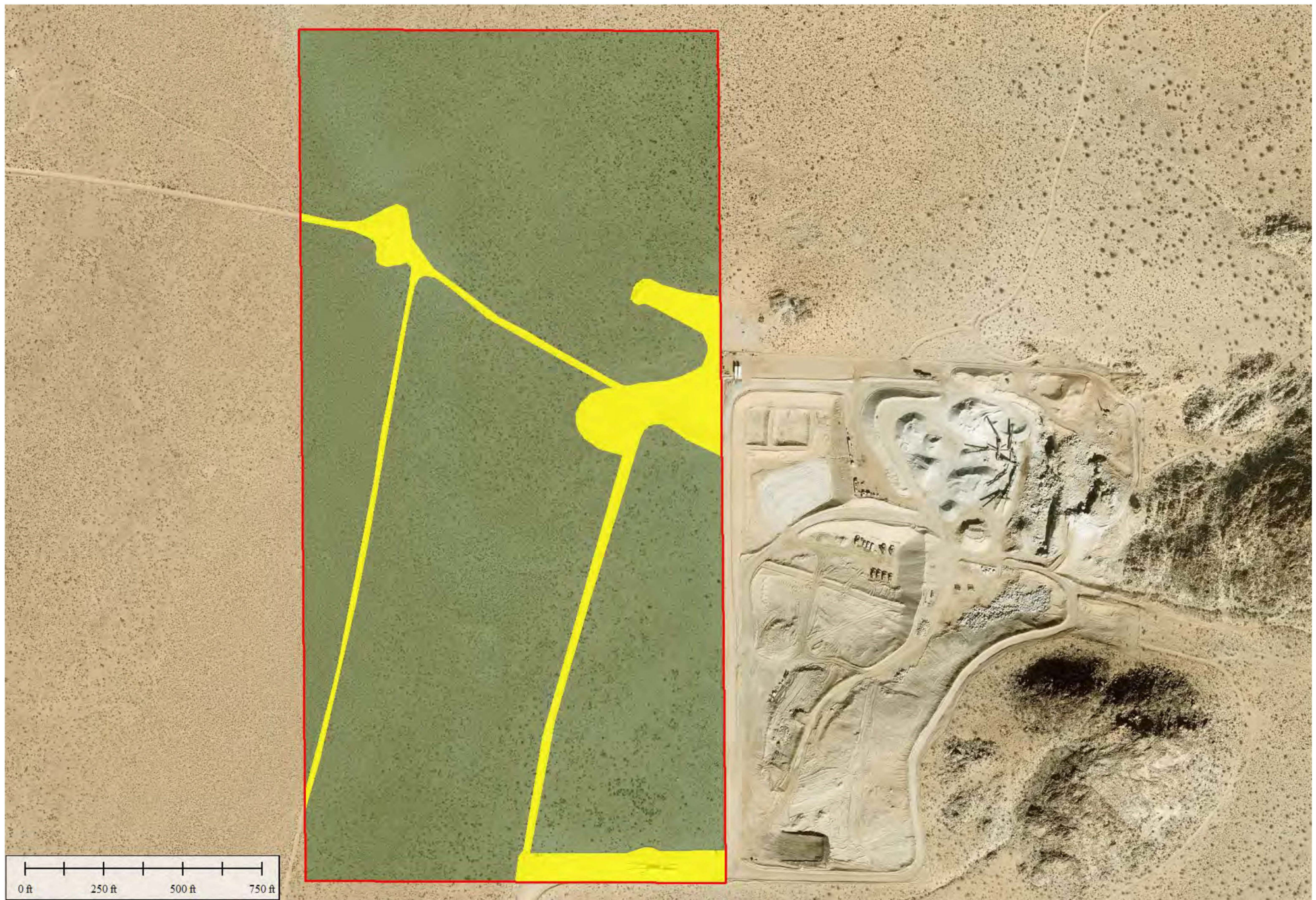
Vicinity Map  
80 Acre Lynx Cat Mine Expansion Area  
Hinkley, San Bernardino County, California

**Legend**

Project Site Boundary







**Figure 3**

Habitat Map  
 80 Acre Lynx Cat Mine Expansion Area  
 Hinkley, San Bernardino County, California

**Legend**

- Project Site Boundary
- Disturbed Areas (6.95 acres)
- Creosote bush scrub (74.97 acres)





## **APPENDIX A**

## Observed Species List

### Plant List

Scientific Name	Common Name
<i>Ambrosia dumosa</i>	White bursage
<i>Amsinckia tessellate</i>	Bristly fiddleneck
<i>Hilaria rigida</i>	Big galleta
<i>Lycium pallidum</i> var. <i>oligospermum</i>	Rabbit thornbush
<i>Pectis papposa</i>	Manybristle chinchweed
<i>Salsola tragus</i>	Russian thistle
<i>Schismus</i> sp.	Mediterranean grass

### Wildlife List

Scientific Name	Common Name
<i>Cnemidophorus tigris</i>	Western whiptail
<i>Phrynosoma platyrhinos calidiarum</i>	Desert horned lizard
<i>Polioptila melanura</i>	Black-tailed gnatcatcher
<i>Sayornis saya</i>	Say's phoebe
<i>Zenaida macroura</i>	Mourning dove

## **APPENDIX B**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitats	Micro Habitat	Presence/Absence
<i>Abronia villosa</i> var. <i>aurita</i>	chaparral sand-verbena	Dicots	None	None	1B.1	BLM_S-Sensitive   SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Coastal scrub   Desert dunes	Chaparral, coastal scrub, desert dunes.	Sandy areas. -60-1570 m.	No desert dunes occur on site. <b>This species is not present.</b>
<i>Astragalus jaegerianus</i>	Lane Mountain milk-vetch	Dicots	Endangered	None	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Joshua tree woodland   Mojavean desert scrub	Joshua tree woodland, Mojavean desert scrub.	Dry, stony hillsides and desert mesas, in granite sand and gravel. Commonly with Joshua trees, usually under shrubs. 975-1250 m.	The project site is below the elevation range for this species. <b>This species is not present.</b>
<i>Cymopterus deserticola</i>	desert cymopterus	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Joshua tree woodland   Mojavean desert scrub	Joshua tree woodland, Mojavean desert scrub.	On fine to coarse, loose, sandy soil of flats in old dune areas with well-drained sand. 625-1220 m.	No dune areas occurs onsite. No suitable habitat occurs on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitats	Micro Habitat	Presence/Absence
Diplacus mohavensis	Mojave monkeyflower	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Desert wash   Joshua tree woodland   Mojavean desert scrub	Joshua tree woodland, Mojavean desert scrub.	Dry sandy or rocky washes along the Mojave River. 660-1270 m.	No suitable habitat occurs on site. <b>This species is not present.</b>
Eriophyllum mohavense	Barstow woolly sunflower	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden   SB_USDA-US Dept of Agriculture	Alkali playa   Chenopod scrub   Mojavean desert scrub	Chenopod scrub, Mojavean desert playas.	Mostly in open, silty or sandy areas w/saltbush scrub, or creosote bush scrub. Barren ridges or margins of playas. 605-1290 m.	No saltbush or creosote bush scrub occurs on site. No ridges or playas occur on site. <b>This species is not present.</b>
Menodora spinescens var. mohavensis	Mojave menodora	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Mojavean desert scrub	Mojavean desert scrub.	Rocky hillsides, canyons. Andesite gravel. 700-1405 m.	The project site is below the elevation range for this species. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitats	Micro Habitat	Presence/Absence
Mentzelia tricuspis	spiny-hair blazing star	Dicots	None	None	2B.1		Mojavean desert scrub	Mojavean desert scrub.	Sandy or gravelly slopes and washes. 150-1280 m.	The project site is flat. No slopes or washes occur on site. <b>This species is not present.</b>
Mentzelia tridentata	creamy blazing star	Dicots	None	None	1B.3	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Mojavean desert scrub	Mojavean desert scrub.	545-1100 m.	This species is known to occur at higher elevations in gravelly and rocky areas of creosote bush scrub habitat. No suitable habitat occurs on site. <b>This species is not present.</b>
Pediomelum castoreum	Beaver Dam breadroot	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Desert wash   Joshua tree woodland   Mojavean desert scrub	Joshua tree woodland, Mojavean desert scrub.	Sandy soils; washes and roadcuts. 605-1485 m.	No washes or roadcuts occur on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitats	Micro Habitat	Presence/Absence
Phacelia parishii	Parish's phacelia	Dicots	None	None	1B.1	BLM_S-Sensitive   SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Alkali playa   Mojavean desert scrub	Mojavean desert scrub, playas.	Alkaline flats and slopes or on clay soils. 540-875 m.	No alkali soils or clay soils occur on site. <b>This species is not present.</b>
Puccinellia simplex	California alkali grass	Monocots	None	None	1B.2	BLM_S-Sensitive	Chenopod scrub   Meadow & seep   Valley & foothill grassland   Vernal pool	Meadows and seeps, chenopod scrub, valley and foothill grasslands, vernal pools.	Alkaline, vernal mesic. Sinks, flats, and lake margins. 1-915 m.	No suitable habitats occur on site. <b>This species is not present.</b>
Transmontane Alkali Marsh	Transmontane Alkali Marsh	Marsh	None	None			Marsh & swamp   Wetland			<b>Not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitats	Micro Habitat	Presence/ Absence
Anaxyrus californicus	arroyo toad	Amphibians	Endangered	None	CDFW_SSC-Species of Special Concern   IUCN_EN-Endangered	Desert wash   Riparian scrub   Riparian woodland   South coast flowing waters   South coast standing waters	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc.	Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	No suitable habitat occurs on site. This species is not present.
Athene cunicularia	burrowing owl	Birds	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Coastal prairie   Coastal scrub   Great Basin grassland   Great Basin scrub   Mojavean desert scrub   Sonoran desert scrub   Valley & foothill grassland	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	No sign of burrowing mammals or burrowing owl sign was found on site during the general bio surveys.
Charadrius montanus	mountain plover	Birds	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_NT-Near Threatened   USFWS_BCC-Birds of Conservation Concern	Chenopod scrub   Valley & foothill grassland	Short grasslands, freshly plowed fields, newly sprouting grain fields, and sometimes sod farms.	Short vegetation, bare ground, and flat topography. Prefers grazed areas and areas with burrowing rodents.	No suitable habitat occurs on site. <b>This species is not present.</b>



Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitats	Micro Habitat	Presence/ Absence
Charadrius nivosus nivosus	western snowy plover	Birds	Threatened	None	CDFW_SSC-Species of Special Concern	Great Basin standing waters   Sand shore   Wetland	Sandy beaches, salt pond levees and shores of large alkali lakes.	Needs sandy, gravelly or friable soils for nesting.	No suitable habitat occurs on site. <b>This species is not present.</b>
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	Threatened	Endangered	BLM_S-Sensitive   USFS_S-Sensitive	Riparian forest	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	No suitable habitat occurs on site. <b>This species is not present.</b>
Falco mexicanus	prairie falcon	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern	Great Basin grassland   Great Basin scrub   Mojavean desert scrub   Sonoran desert scrub   Valley & foothill grassland	Inhabits dry, open terrain, either level or hilly.	Breeding sites located on cliffs. Forages far afield, even to marshlands and ocean shores.	No suitable habitat occurs on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitats	Micro Habitat	Presence/ Absence
Gopherus agassizii	desert tortoise	Reptiles	Threatened	Threatened	IUCN_CR-Critically Endangered	Joshua tree woodland   Mojavean desert scrub   Sonoran desert scrub	Most common in desert scrub, desert wash, and Joshua tree habitats; occurs in almost every desert habitat.	Require friable soil for burrow and nest construction. Creosote bush habitat with large annual wildflower blooms preferred.	Desert tortoise burrows and sign including scat were found during the focused surveys in 2023. <b>This species is present.</b>
Lanius ludovicianus	loggerhead shrike	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_NT-Near Threatened	Broadleaved upland forest   Desert wash   Joshua tree woodland   Mojavean desert scrub   Pinon & juniper woodlands   Riparian woodland   Sonoran desert scrub	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub and washes.	Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	Suitable habitat is present on site. <b>This species has the potential to be present on site.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitats	Micro Habitat	Presence/ Absence
Lasionycteris noctivagans	silver-haired bat	Mammals	None	None	IUCN_LC-Least Concern	Lower montane coniferous forest   Oldgrowth   Riparian forest	Primarily a coastal and montane forest dweller, feeding over streams, ponds and open brushy areas.	Roosts in hollow trees, beneath exfoliating bark, abandoned woodpecker holes, and rarely under rocks. Needs drinking water.	No suitable habitat occurs on site. <b>This species is not present.</b>
Microtus californicus mohavensis	Mohave river vole	Mammals	None	None	CDFW_SSC-Species of Special Concern	Riparian scrub	Occurs only in weedy herbaceous growth in wet areas along the Mojave River. May be found in some irrigated pastures.	Burrows into soft soil. Feeds on leafy parts of grasses, sedges and herbs. Clips grasses to form runways from burrow.	No suitable habitat occurs on site. <b>This species is not present.</b>
Rallus obsoletus yumanensis	Yuma Ridgway's rail	Birds	Endangered	Threatened	CDFW_FP-Fully Protected	Freshwater marsh   Marsh & swamp   Wetland	Nests in freshwater marshes along the Colorado River and along the south and east ends of the Salton Sea.	Prefers stands of cattails and tules dissected by narrow channels of flowing water; principle food is crayfish.	No suitable habitat occurs on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitats	Micro Habitat	Presence/ Absence
Siphateles bicolor mohavensis	Mohave tui chub	Fish	Endangered	Endangered	AFS_EN-Endangered   CDFW_FP-Fully Protected	Aquatic   Artificial flowing waters   Artificial standing waters	Endemic to the Mojave River basin, adapted to alkaline, mineralized waters.	Needs deep pools, ponds, or slough-like areas. Needs vegetation for spawning.	No suitable habitat occurs on site. <b>This species is not present.</b>
Taxidea taxus	American badger	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Alkali marsh   Alkali playa   Alpine   Alpine dwarf scrub   Bog & fen   Brackish marsh   Broadleaved upland forest   Chaparral   Chenopod scrub   Cismontane woodland   Closed-cone coniferous forest   Coastal bluff scrub   Coastal dunes   Coastal prairie	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Suitable habitat is present on site. <b>This species has the potential to be present on site.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitats	Micro Habitat	Presence/ Absence
Toxostoma lecontei	Le Conte's thrasher	Birds	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Desert wash   Mojavean desert scrub   Sonoran desert scrub	Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats.	Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground.	Suitable habitat is present on site. <b>This species has the potential to be present on site.</b>
Uma scoparia	Mojave fringe-toed lizard	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Desert dunes   Desert wash   Mojavean desert scrub	Fine, loose, wind-blown sand in sand dunes, dry lakebeds, riverbanks, desert washes, sparse alkali scrub and desert scrub.	Shrubs or annual plants may be necessary for arthropods found in the diet.	No suitable habitat occurs on site. <b>This species is not present.</b>

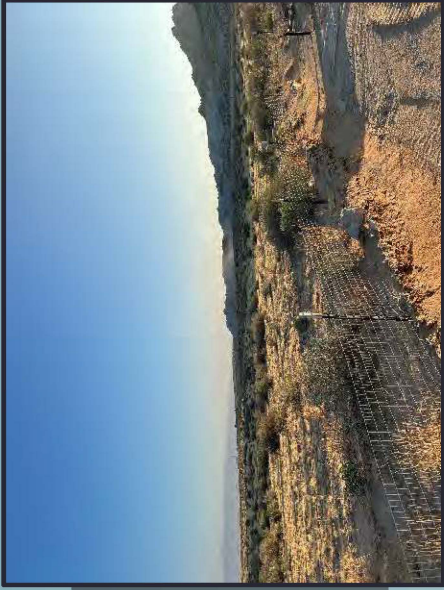
Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitats	Micro Habitat	Presence/ Absence
Xerospermophilus mohavensis	Mohave ground squirrel	Mammals	None	Threatened	BLM_S-Sensitive   IUCN_NT-Near Threatened	Chenopod scrub   Joshua tree woodland   Mojavean desert scrub	Open desert scrub, alkali scrub and Joshua tree woodland. Also feeds in annual grasslands. Restricted to Mojave Desert.	Prefers sandy to gravelly soils, avoids rocky areas. Uses burrows at base of shrubs for cover. Nests are in burrows.	No alkali scrub or Joshua tree woodland habitat is present on site. The project site has very little shrub diversity and has dispersed disturbed areas. The project site is located directly south of active mining activities. The project site does not provide suitable habitat. <b>This species is not present.</b>

## **APPENDIX C**

Scientific Name	Common Name	Lifeform	CRPR	CESA	FESA	Blooming Period	Habitat	Microhabitat	Elevation Low_m	Elevation High_m	Presence/ Absence
Chorizanthe spinosa	Mojave spineflower	annual herb	4.2	None	None	Mar-Jul	Chenopod scrub, Joshua tree "woodland", Mojavean desert scrub, Playas	Alkaline (sometimes)	6	1300	No alkaline soils occur on site. No playas occur on site. No suitable habitat for this species occurs on site. <b>This species is not present.</b>
Muilla coronata	crowned muilla	perennial bulbiferous herb	4.2	None	None	Mar-Apr(May)	Chenopod scrub, Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland		670	1960	The project site is below the elevation range for this species. <b>This species is not present.</b>
Sclerocactus polyancistrus	Mojave fish-hook cactus	perennial stem	4.2	None	None	Apr-Jul	Great Basin scrub, Joshua tree "woodland", Mojavean desert scrub	Carbonate (usually)	640	2320	This species was not observed during the general bio surveys or the focused desert tortoise surveys. <b>This species is not present.</b>
Yucca brevifolia			CBR	CC							This species was not observed during the general bio surveys or the focused desert tortoise surveys. <b>This species is not present.</b>



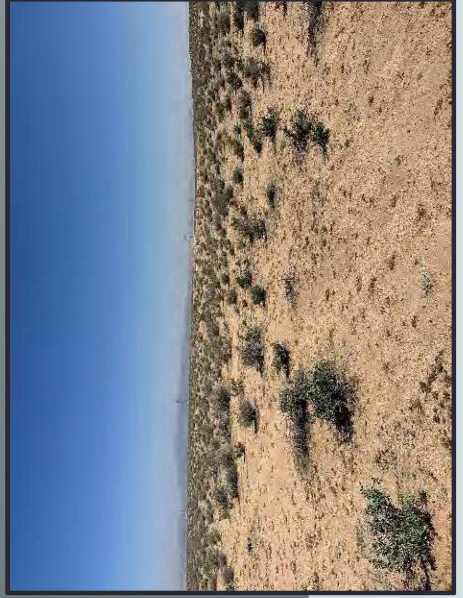
## **APPENDIX D**



View from the southern border of the site facing northeast. View of rabbit thornbush scrub habitat on site.



View from the western border facing east. View of rabbit thornbush scrub habitat on site.



View of rabbit thornbush scrub habitat on the northern portion of the site.



View of active mine directly east of the project site.



View from the eastern border of the site facing west. View of rabbit thornbush scrub habitat on site.

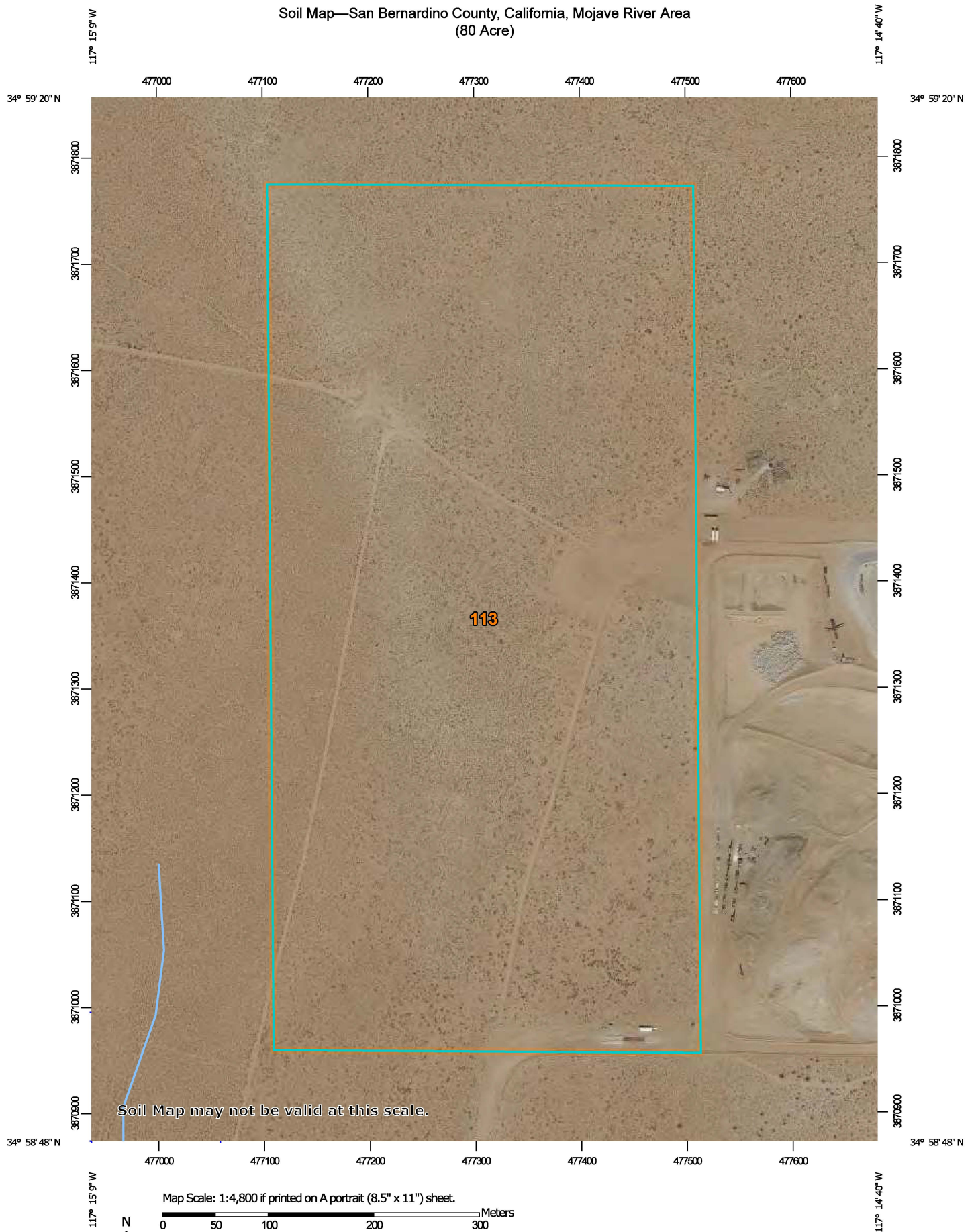


View of disturbed habitat on site with Russian thistle.

## **APPENDIX E**




# Soil Map—San Bernardino County, California, Mojave River Area (80 Acre)



Soil Map—San Bernardino County, California, Mojave River Area  
(80 Acre)

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Bernardino County, California, Mojave River Area

Survey Area Data: Version 15, Aug 30, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 17, 2022—Jun 12, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
113	CAJON SAND, 2 TO 9 PERCENT SLOPES	81.7	100.0%
Totals for Area of Interest		81.7	100.0%

## **APPENDIX F**





**DESERT TORTOISE PRESENCE/ABSENCE SURVEYS  
FOR  
ASSESSOR'S PARCEL NUMBER  
0496-011-76**

**LYNX CAT MOUNTAIN QUARRY  
SAN BERNARDINO COUNTY  
CALIFORNIA**

**Prepared for:  
Webber and Webber  
101 E Redlands Blvd, Suite 240  
Redlands, CA 92373**

**Prepared by:  
Hernandez Environmental Services  
17037 Lakeshore Drive  
Lake Elsinore, CA. 92530**

**JANUARY 2024**

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## FIGURES

Figure 1 – Location Map

Figure 2 – Vicinity Map

Figure 3 – Desert Tortoise Survey Area Map

Figure 4 – Desert Tortoise Survey Results Map

## APPENDICES

Appendix A – Site Photographs

## Executive Summary

Hernandez Environmental Services (HES) was contracted by Webber and Webber to conduct desert tortoise (*Gopherus agassizii*) presence/absence surveys for the proposed Lynx Cat Mountain Quarry Project north of State Highway 58.

HES conducted a presence/absence survey following the guidelines in the October 26, 2018 *Preparing For Any Action That May Occur Within The Range Of The Mojave Desert Tortoise* guidelines. The proposed expansion area is approximately 81.92 acres in size.

On September 20, 2023, four HES biologists surveyed the entire 81.92-acre action area. A total of eight burrows and six scat were found during the field survey. All desert tortoise sign and the desert tortoise were found within the action area.

HES recommends that informal consultation should be initiated with the Bureau of Land Management, USFWS, and the CDFW prior to commencing any mining activities in the action area.

## 1.0 Introduction

Hernandez Environmental Services (HES) was contracted by Webber and Webber to conduct desert tortoise (*Gopherus agassizii*) presence/absence surveys for the Lynx Cat Mountain Mine proposed expansion area directly north of the existing active quarry.

HES conducted a presence/absence survey following the guidelines in the October 26, 2018 *Preparing For Any Action That May Occur Within The Range Of The Mojave Desert Tortoise* guidelines. The proposed expansion area is approximately 81.92 acres in size. The size of the action area would be considered a small project under the 2018 guidelines, so a *Small Project Survey* was conducted.

### 1.1 Project Site Location

The project site is located south of Roy Road and northwest of the intersection of Valley Wells Road and Santa Fe Avenue. The site is accessed via unnamed roads. The site is located within the unincorporated community of Hinkley, San Bernardino County, California. The project site consists of a portion of Assessor's Parcel Number (APN) 0496-011-76. Specifically, the project site is located within section 1, township 10 north, range 4 west in the *Hinkley* United States Geological Survey (USGS) 7.5' topographic quadrangle. The center point latitude and longitude for the project site is 34.98464599, -117.24844167 (Figures 1 and 2).

## 2.0 Methodology

### 2.1 Literature Review

HES conducted a literature search and reviewed aerial photographs and topographic maps of the project location and surrounding areas. The *Hinkley* USGS topographic quad and surrounding eight quads were used to identify sensitive species with the California Natural Diversity Data Base (CNDDDB). The CNDDDB and USFWS critical habitat databases were utilized, together with Geographic Information System (GIS) software, to locate the previously recorded locations of desert tortoise and designated critical habitat and determine the distance from the project site. HES followed the protocol for site assessment and presence/absence surveys described in the USFWS October 26, 2018 *Preparing For Any Action That May Occur Within The Range Of The Mojave Desert Tortoise* (*Gopherus agassizii*).

### 2.2 Field Survey

On September 20, 2023, four HES biologists surveyed the entire 81.92-acre action area. Survey conditions were as follows:

Date	Start Time	End Time	Temperature (Fahrenheit)	Weather Conditions
September 20, 2023	8:00 a.m.	12:00 p.m.	56-74 degrees	Clear skies

Hernandez Environmental Services  
17037 Lakeshore Drive  
Lake Elsinore, California 92530  
(951) 579-1653

HES biologist Juan Hernandez led the surveys. Linear transects spaced approximately 10 meters apart were walked using UTM as guidelines for 100 percent coverage. Tortoise, tortoise sign, and areas of interest observed were recorded and Global Positioning System (GPS) way points were recorded.

### **3.0 Existing Conditions and Results**

#### **3.1 Environmental Setting**

The project site consists of vacant land directly west of an active mining quarry. There are disturbed areas throughout the site in the form of dirt roads, previously graded areas, and a few small dirt piles. The site is predominantly vegetated with rabbit thornbush scrub habitat. Open desert occurs to the north, south, and west of the site. The Lynx Cat Mountain Quarry access road and office is located along the southeast border of the site. The site is relatively flat with onsite elevations ranging from 2,099 feet above mean sea-level (AMSL) to 2,142 feet AMSL.

The rabbit thornbush scrub habitat on site is considered desert tortoise habitat. There are CNDDDB recorded occurrences within 5 miles.

#### **3.2 Desert Tortoise Survey Results**

The entire 81.92-acre action area was surveyed for 100 percent coverage (Figure 3). A total of eight burrows and six scat were found during the field survey. All desert tortoise sign were found within the survey area (Figure 4).

### **4.0 Discussion**

Based on the October 26, 2018 *Preparing For Any Action That May Occur Within The Range Of The Mojave Desert Tortoise* guidelines, the action area is considered a “smaller project.” A smaller project is one that is smaller than 500 acres. For smaller projects, the number of tortoises affected is likely to be too small for statistical treatment; the goal with surveying these areas is to determine whether desert tortoise is likely to be present and to determine any areas of concentrated use (October 26, 2018 Guidelines). Based on our results, we have determined that the action area has desert tortoise present in the 81.92 acre proposed mine expansion area.

HES recommends that consultation should be initiated with the Bureau of Land Management, USFWS, and the CDFW prior to commencing any mining activities in the action area.

## 5.0 Certification

**CERTIFICATION:** I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.”



DATE 01/12/2024

SIGNED \_\_\_\_\_

PROJECT MANAGER

Fieldwork Performed By:

Juan J. Hernandez

PRINCIPAL BIOLOGIST

Elizabeth Gonzalez

SENIOR BIOLOGIST

Sarah Vasquez

ASSOCIATE BIOLOGIST

Carissa Gomez

ASSOCIATE BIOLOGIST

## 6.0 References

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## FIGURES



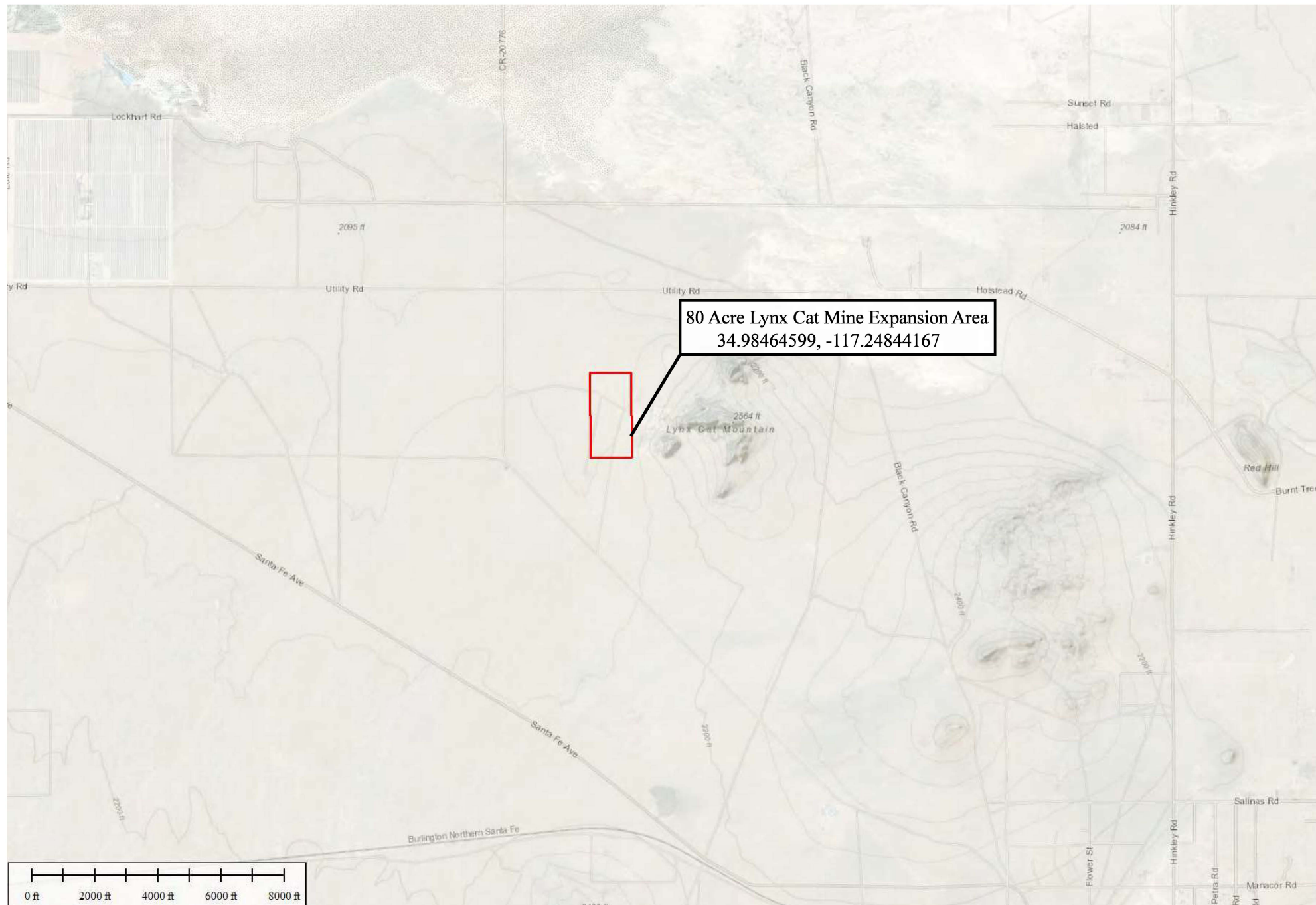



Figure 1

Location Map

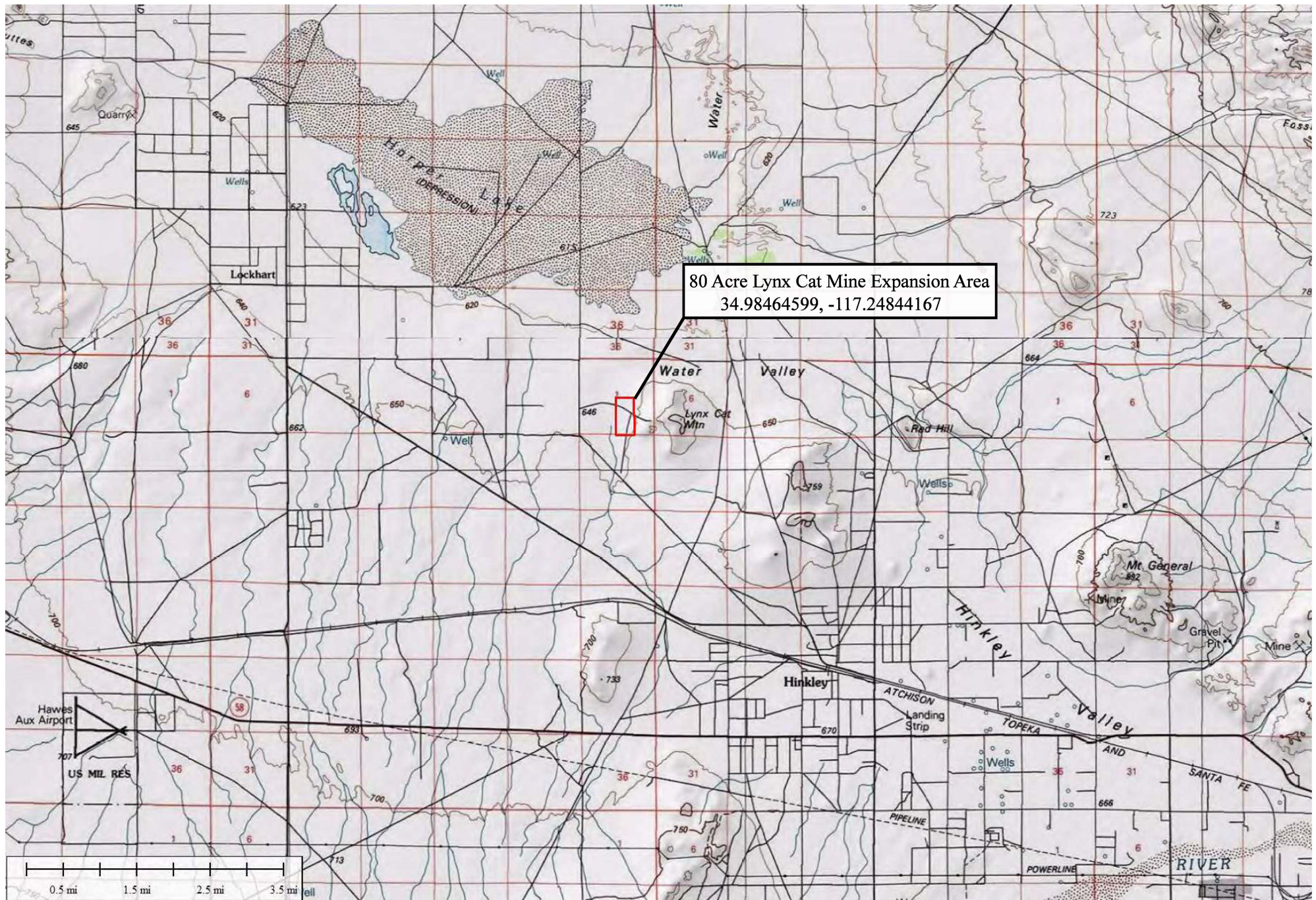
80 Acre Lynx Cat Mine Expansion Area  
Hinkley, San Bernardino County, California

Legend

 Project Site Boundary







**Figure 2**

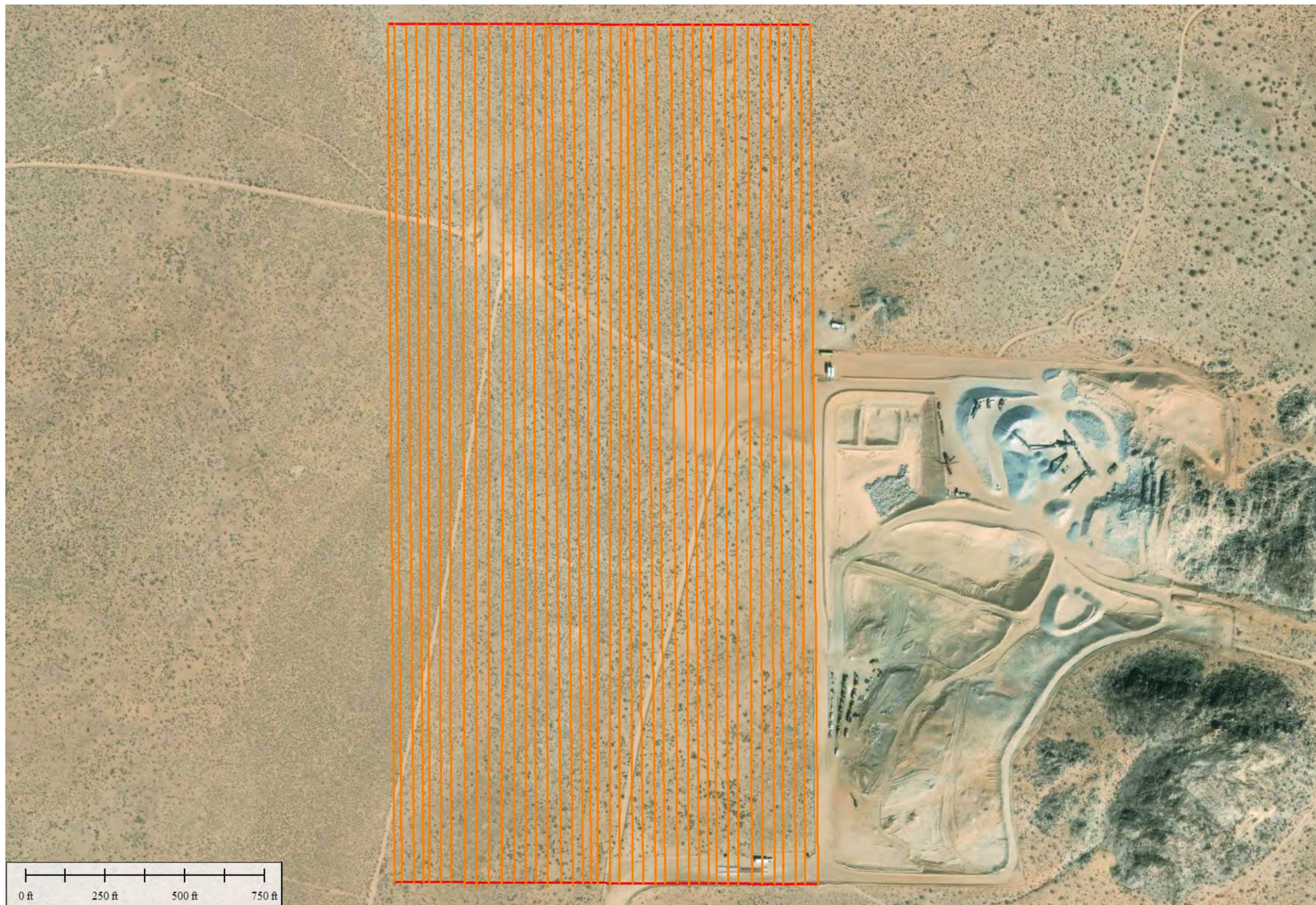
Vicinity Map  
80 Acre Lynx Cat Mine Expansion Area  
Hinkley, San Bernardino County, California

**Legend**

Project Site Boundary








**Figure 3**

Desert Tortoise Survey Area Map  
80 Acre Lynx Cat Mine Expansion Area  
Hinkley, San Bernardino County, California

**Legend**

-  Project Site Boundary
-  Transect

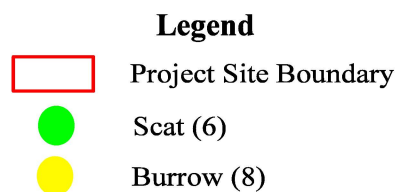






**Figure 4**

Desert Tortoise Survey Results Map  
80 Acre Lynx Cat Mine Expansion Area  
Hinkley, San Bernardino County, California



## **APPENDIX A**





View of desert tortoise burrows found on site.



View of desert tortoise burrow found on site.



View of fresh scat found on site.



View of older scat found on site.