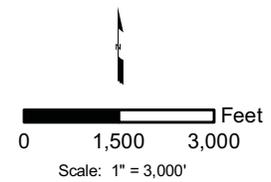


LEGEND

-  Site Boundary
-  Quarry Construction Boundary

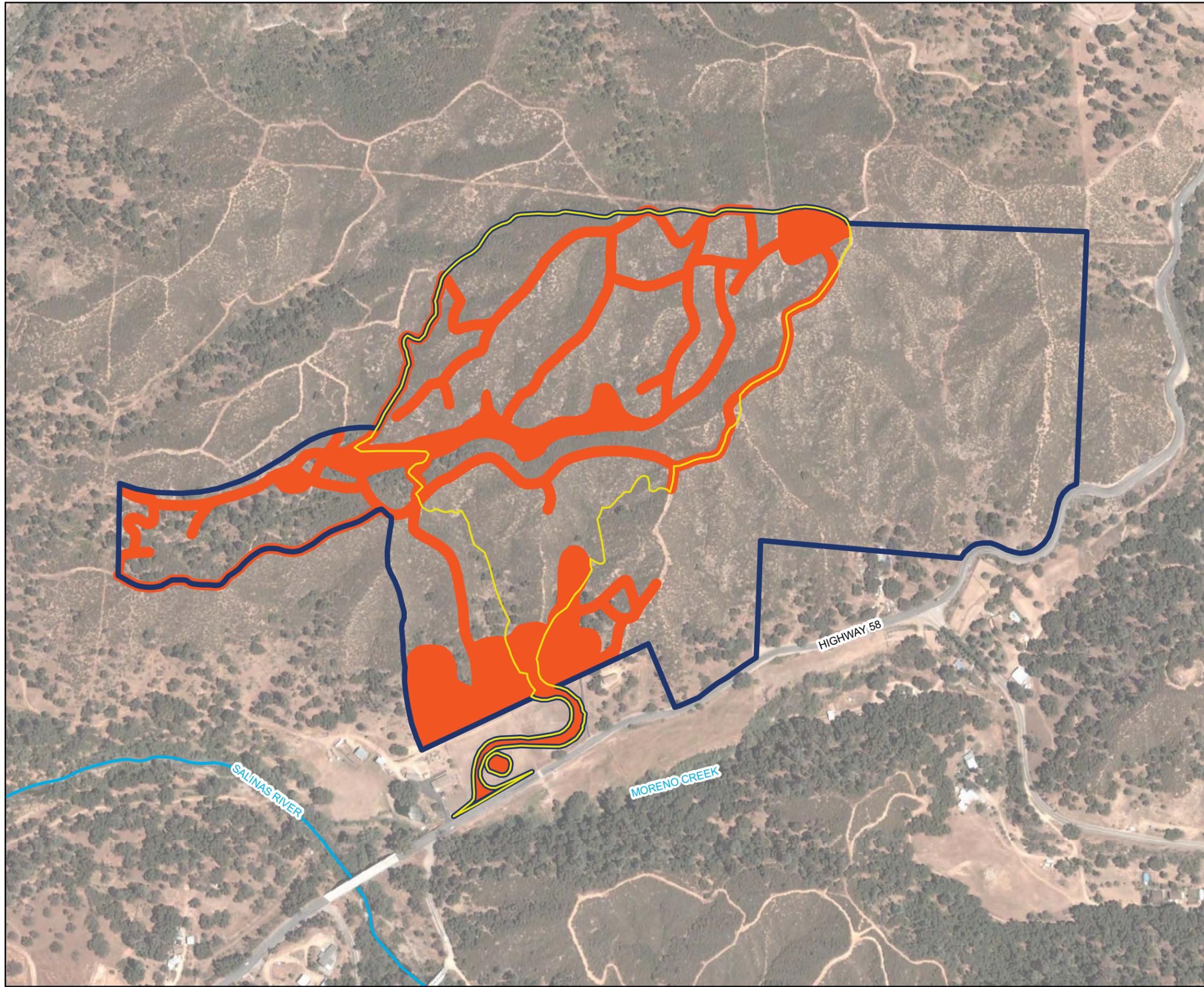
NOTES

· Map source: Google Maps.



Site Location Map

Las Pilitas Quarry
Santa Margarita, California

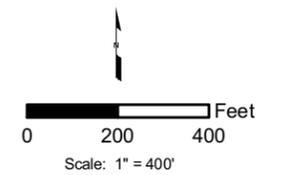


LEGEND

-  Site Boundary
-  Quarry Construction Boundary
-  Primary Survey Route

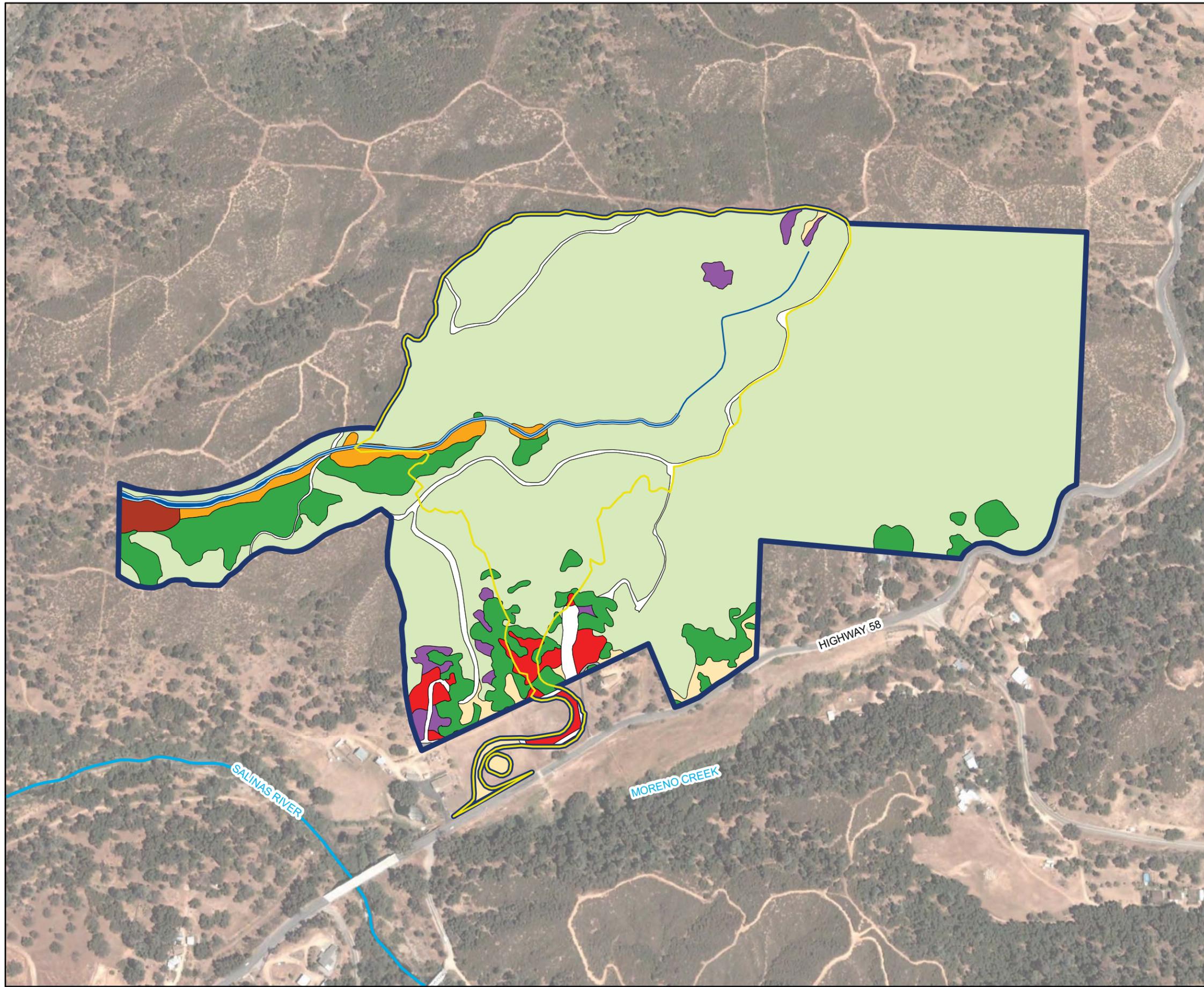
NOTES

· Aerial photo source: Google Earth Pro.



Primary Survey Routes

Las Pilitas Quarry
Santa Margarita, California



LEGEND

-  Site Boundary
-  Quarry Construction Boundary
-  Drainage

PLANT COMMUNITIES

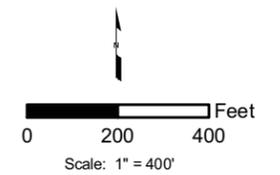
-  Chaparral
-  Coast Live Oak Woodland
-  Foothill Woodland
-  Annual Grassland
-  Diablan Sage Scrub
-  Diablan Sage Scrub (disturbed)
-  Central Coast Live Oak Riparian Forest
-  Seasonally-flooded Vernal Swale
(shown larger than scale for clarity on map)

OTHER

-  Disturbed (paved road, residence)
-  Roads and cleared vegetation

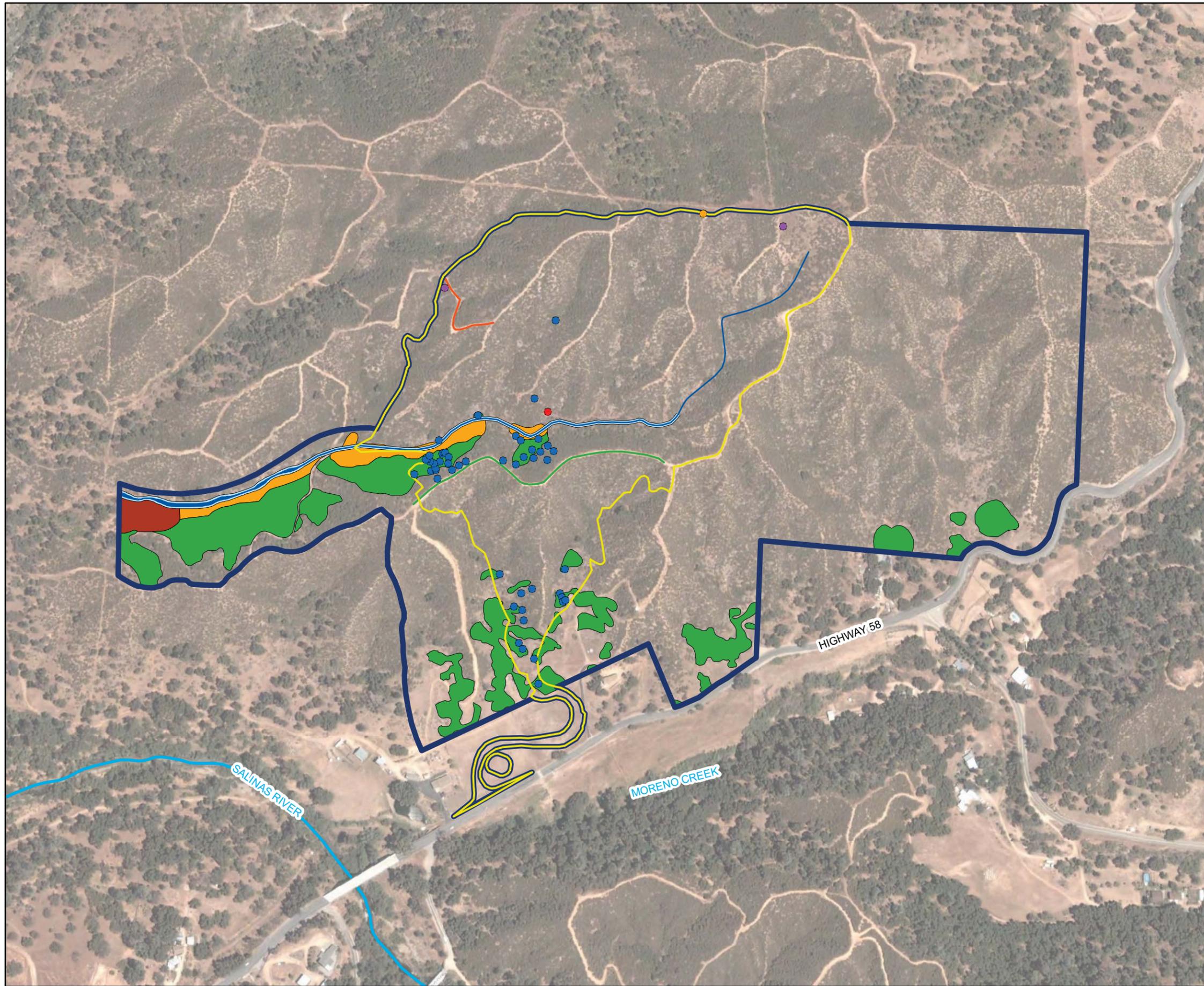
NOTES

Aerial photo source: Google Earth Pro.



Existing Habitats

Las Pilitas Quarry
Santa Margarita, California



LEGEND

- Site Boundary
- Quarry Construction Boundary
- Drainage

SENSITIVE PLANTS ¹

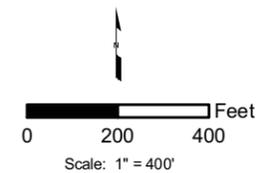
- Oak (5" or greater in diameter) ²
- La Panza mariposa lily
- Straight-awned spineflower
- Trumpet-throated gilia
- Shining navarretia ³
- Brewer's red maids ³

PLANT COMMUNITIES

- Coast Live Oak Woodland
- Foothill Woodland
- Central Coast Live Oak Riparian Forest
- Seasonally-flooded Vernal Swale (shown larger than scale for clarity on map)

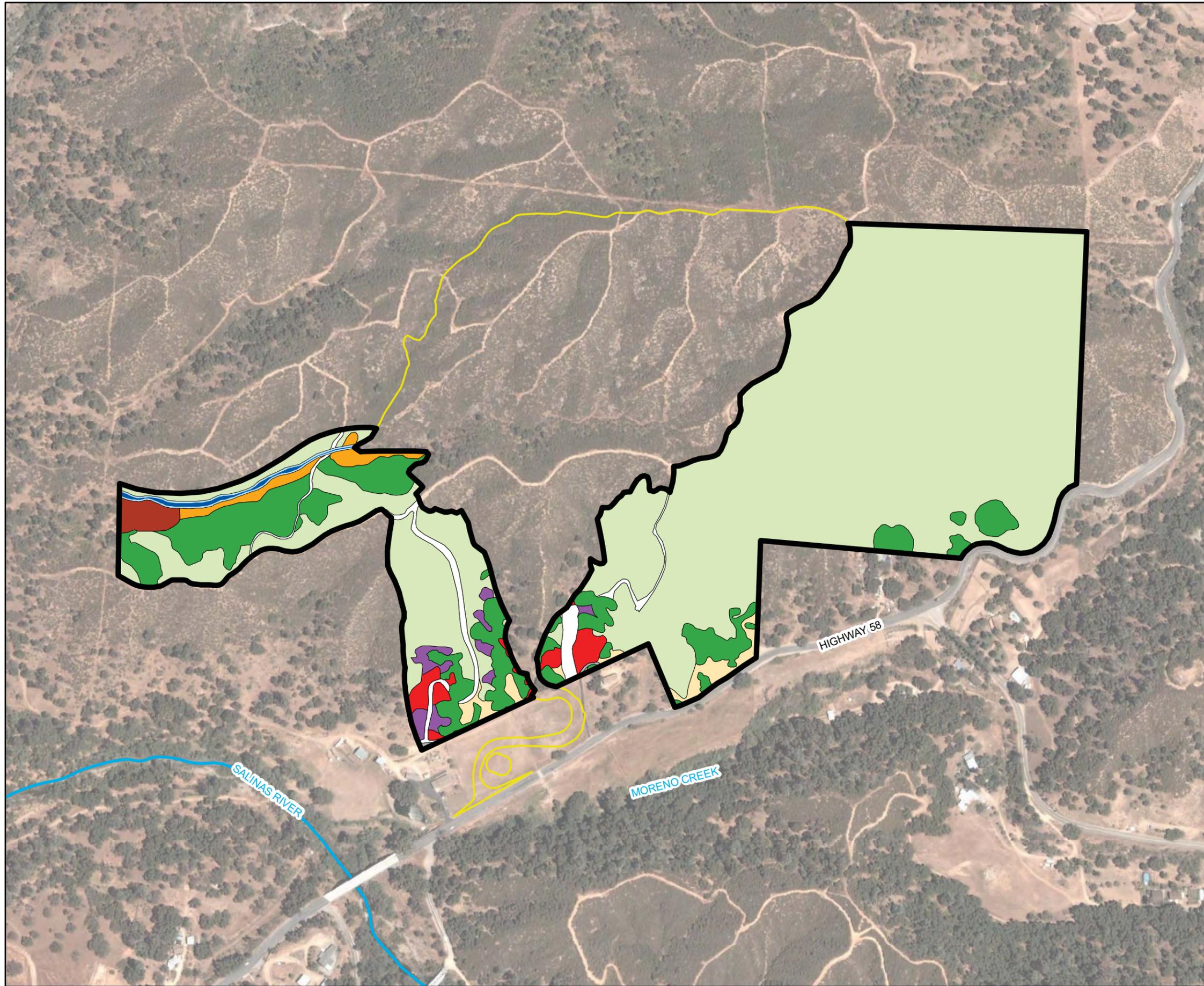
NOTES

- 1 = See text for survey limitations.
- 2 = See Table 6 for impacted oak tag numbers and descriptions.
- 3 = Shining navarretia and Brewer's red maids observed intermittently in the areas marked.
- 4 = Aerial photo source: Google Earth Pro.



Sensitive Species and Habitat

Las Pilitas Quarry
Santa Margarita, California



LEGEND

-  Mitigation Area Boundary
-  Quarry Construction Boundary

PLANT COMMUNITIES

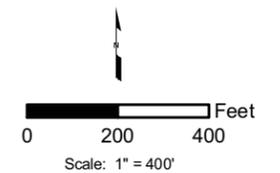
-  Chaparral
-  Coast Live Oak Woodland
-  Foothill Woodland
-  Annual Grassland
-  Diablan Sage Scrub
-  Diablan Sage Scrub (disturbed)
-  Central Coast Live Oak Riparian Forest
-  Seasonally-flooded Vernal Swale
(shown larger than scale for clarity on map)

OTHER

-  Disturbed (paved road, residence)
-  Roads and cleared vegetation

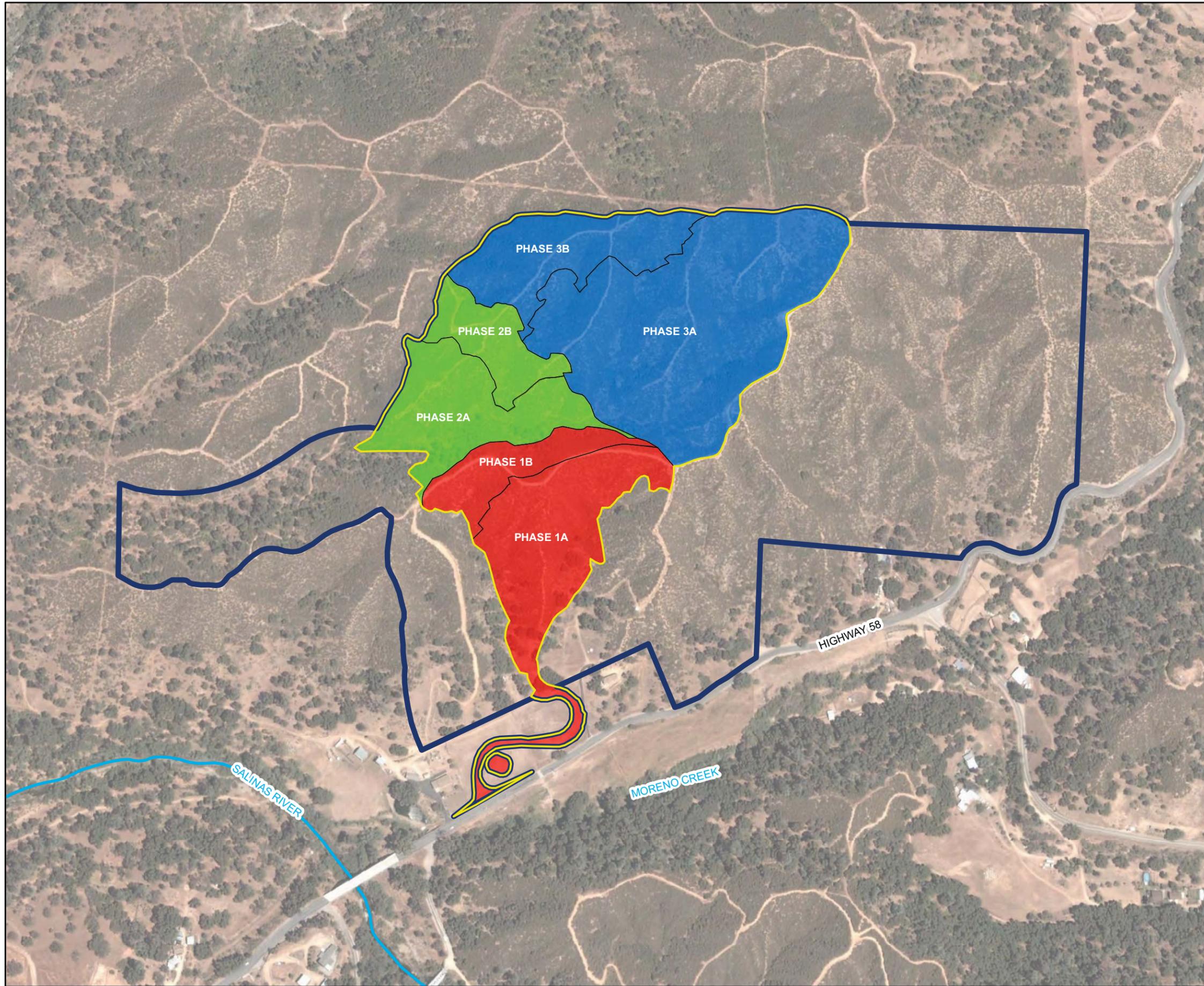
NOTES

- Aerial photo source: Google Earth Pro.
- Mitigation area boundary lines and calculated habitat areas may differ slightly from Tartaglia Engineering's AutoCAD site plans due to the oblique angle of the aerial photograph and steep slopes at the site.



Mitigation Areas

Las Pilitas Quarry
Santa Margarita, California



LEGEND

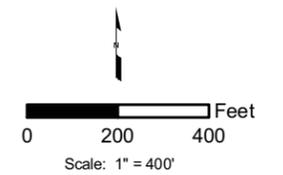
-  Site Boundary
-  Quarry Construction Boundary

PROPOSED QUARRY PHASES

-  Phase 1
-  Phase 2
-  Phase 3

NOTES

· Aerial photo source: Google Earth Pro.



Proposed Quarry Phasing

Las Pilitas Quarry
Santa Margarita, California



Chaparral is the dominant plant community at the Site, covering north-facing and south-facing slopes in most places. Chamise chaparral is found on south-facing slopes, whereas mixed chaparral and oaks are found in drainage bottoms and on north-facing slopes. View looking west.

LFR Photo 0387

4/19/09



Mixed chaparral, supporting scrub oak, whitebark ceanothus, buckbrush, bigberry manzanita, toyon, and other shrubs carpets north-facing slopes at the Site. View looking southwest.

LFR Photo 0392

4/19/09



Openings in chaparral support diverse native herbaceous species. View looking southwest.

LFR Photo 3723
4/20/09



Among the annuals in chaparral openings is California fire poppy.

LFR Photo 0400
6/9/09



Chalk dudleya occurs on boulder outcrops at the Site. View looking west.

LFR Photo 0177

6/9/09



California lace fern and other fern species are found between boulders at the Site. Leaves are still green in mid-June.

LFR Photo 0161

6/9/09



Examples of 'fuelbreaks' used to access chaparral dominated slopes during the LFR survey. Vehicle was driven on dirt perimeter road (visible in distance) to reach different portions of Site. Transects were also walked across canyons between fuelbreaks. View looking south.

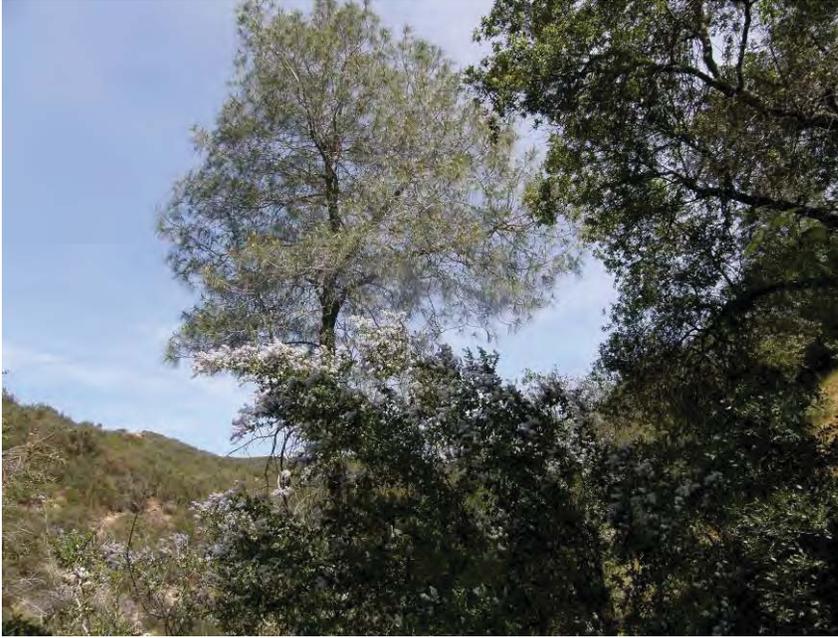
LFR Photo 0660



Coast live oak woodland predominates on the north-facing slope uphill from the main drainage at the Site. View looking southwest.

LFR Photo 3742

4/20/09



In addition to coast live oak, a few gray pines and scattered shrubs are found associated with coast live oak woodland. View looking northeast.

LFR Photo 0440

4/20/09



Native grasses and herbs predominate in the understory of oak woodland, along with scattered shrubs. View looking west.

LFR Photo 0451

4/20/09



Poison-oak is a common shrub under the canopy of coast live oak woodland on Site.

LFR Photo 0434

6/9/09



Coast live oak woodland also occurs on lower slopes and in drainages near Highway 58. View looking northwest.

LFR Photo 4104

6/9/09



Foothill woodland occurs west of the proposed quarry site in the proposed woodland mitigation area. Dominant oaks include valley oak and blue oak. View looking southwest.

LFR Photo 0113

9/10/09



In addition to gray pine, thickets of basketry bush and California false-indigo are common in foothill woodland on Site View looking east.

LFR Photo 0093

9/10/09



Diablan sage scrub is primarily found on lower south-facing slopes adjacent to Highway 58. California buckwheat dominates this vegetation type. Oak woodland shown higher up on slope. View looking southeast.

LFR Photo 4151

6/9/09



Disturbed Diablan sage scrub occurs at entrance to Site, shown in foreground. Annual grassland and ruderal vegetation is present near to the existing residence. View looking east, with Highway 58 visible.

LFR Photo 4101

6/9/09



Annual grassland along Highway 58. A detention basin is proposed for this general area, and this particular grassland area is dominated by ruderal and weedy species. Other annual grassland areas on Site support many native herbs. View looking south toward Highway 58.

LFR Photo 3630

3/26/09



Diverse native herbaceous species are present along the main dirt road and adjacent disturbed Diablan sage scrub, as well as in annual grassland with reduced grass density. Looking north on southwest portion of Site across from existing residence.

LFR Photo 3742

4/20/09



La Panza mariposa lily, a sensitive plant species, is found as isolated individuals within chaparral openings.

LFR Photo 0670

5/5/09



Shining navarettia is a sensitive annual species scattered in small numbers in the northwest portion of Site, both in chaparral openings and roadways.

LFR Photo 4146

6/9/09



The Site offers excellent habitat for the California horned lizard, a California species of concern. Numerous adults and juveniles were observed during the LFR survey.

LFR Photo 0424

4/20/09



The main drainage flows to the west in the center of the Site. Chamise chaparral covers south-facing slopes in foreground, coast live oak woodland is found on steep-north facing slopes, while coast live oak riparian forest predominates along the drainage itself. Looking southeast.

LFR Photo 4148

6/9/09



View of the ephemeral drainage through the Site from the eastern perimeter road facing southwest.

LFR Photo 100015

7/08/09



View of the upper reach of the ephemeral drainage through the Site. Photo taken from the same location as the above photo on the eastern perimeter road facing north.

LFR Photo 100016

7/08/09



Descending the slopes of the main drainage, upland trees, shrubs, and herbs are at least seasonally replaced by herbaceous wetland vegetation such as large-leaved rush in the drainage bottom.

LFR Photo 0443

4/20/09



Large-leaved rush and yellow-flowering American rocket are among the many wetland plants lining the ephemeral drainage dominated by seasonally-flooded vernal swale vegetation. Looking east.

LFR Photo 0432

4/20/09



A small pool is visible in the foreground, with ferns, white-flowering death camas, large-leaved rush, and other vernal wetland dominant species in the main drainage at Site. Even in these more developed wet areas, the water-adapted vegetation is tightly restricted to the narrow drainage generally averaging no more than three feet in width. Looking west.

LFR Photo 0459

4/20/09



Large-leaved rush and other wetland plants go dormant when the ephemeral drainage dries up and turn brown. In this area the drainage widens to about ten feet in width. This photograph was taken west of the proposed quarry site in the proposed woodland mitigation area. Looking west.

LFR Photo 0122



A disturbed clearing exists in southeast portion of Site, near the Goldie Lane entrance from Highway 58. Looking south.

LFR Photo 4096

6/9/09



View of the end of the ephemeral drainage near the Salinas River (off-site). View facing east.

LFR Photo

6/1/09



Closer view of the end of the ephemeral drainage near the Salinas River (off-site). Water appears to sheet flow or continue underground from this point. View facing east.

LFR Photo

6/1/09



Photo taken from the end of the ephemeral drainage facing northwest (opposite of photos above). The Salinas river is defined by the riparian trees in the photo. The Hanson Aggregates quarry is visible in the background.

LFR Photo

6/1/09



Closer view of the upland area between the end of the ephemeral drainage and the Salinas River. Note the absence of a defined surface connection. View facing south.

LFR Photo

6/1/09



Closer view of the upland area between the end of the ephemeral drainage and the Salinas River. View facing northwest.

LFR Photo

6/1/09



View from the same location as above looking upstream from the end of the ephemeral drainage. View facing east.

LFR Photo

6/1/09



Chaparral on slopes (background) in proposed mitigation area, east of proposed quarry boundary. Oak woodland in foreground.

K.Johnston Photo IMG0881

7/31/09

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 05/05/2009

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Calandrinia breweri*

Common Name: Brewer's red maids

Species Found? Yes No If not, why? _____

Total No. Individuals 30 Subsequent Visit? yes no

Is this an existing NDDB occurrence? _____ no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: LFR (Mary Carroll, S. Bernstein)

Address: 301 S. Miller St. Ste. 210
Santa Maria CA 93454

E-mail Address: mary.carroll@lfr.com

Phone: (805) 478-0727

Plant Information

Phenology: _____% vegetative 100% flowering _____% fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: San Luis Obispo Landowner / Mgr.: Private

Quad Name: Santa Margarita Elevation: 1180

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): Topo4

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model _____

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy _____ meters/feet

Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)

Coordinates: 35 deg 25'01"N/120 deg 33'49"W

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Occasional individuals found along margins of dirt roadway adjacent to chaparral vegetation, on top of east-west trending ridges. Scattered individuals of associated herbaceous species include *Chaenactis glabriuscula* var. *lanosa*, *Chorizanthe staticoides*, *Lupinus hirsutissimus*. Also present occasionally are *Papaver californicum* and *Emmenanthe penduliflora*.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: currently private, proposed rock quarry; existing rock quarry on adjacent parcel

Visible disturbances: habitat in excellent condition overall, only visible disturbances are fuelbreaks and dirt roadways

Threats: off-road vehicles, clearing to maintain roadways, potential mining will remove completely

Comments:

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Jepson Manual
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: _____

Photographs: (check one or more) Slide Print Digital

Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 05/05/2009

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Calochortus simulans*

Common Name: La Panza (San Luis Obispo County) mariposa lily

Species Found? Yes No _____
If not, why?

Total No. Individuals <10 Subsequent Visit? yes no

Is this an existing NDDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: LFR (Mary Carroll, M.Siemens, G.McGowan)

Address: 301 S. Miller St. Ste. 210

Santa Maria CA 93454

E-mail Address: mary.carroll@lfr.com

Phone: (805) 478-0727

Plant Information

Phenology: 10% 90% _____%
vegetative flowering fruiting

Animal Information

adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: San Luis Obispo

Landowner / Mgr.: Private

Quad Name: Santa Margarita

Elevation: 1180

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S O

Source of Coordinates (GPS, topo. map & type): Topo4

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S O

GPS Make & Model _____

DATUM: NAD27 NAD83 WGS84

Horizontal Accuracy _____ meters/feet

Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)

Coordinates: 10S720810mE 3921709mN 35 deg 24'51"N/120 deg 34'06"W

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Isolated individuals in three nearby locations, all in openings of chaparral dominated by *Adenostoma fasciculatum*, with scattered *Ceanothus leucodermis* and *Arctostaphylos glauca*.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: currently private, proposed rock quarry; existing rock quarry adjacent

Visible disturbances: good condition habitat, only visible disturb is fuelbreak dirt roadways

Threats: off-road vehicles, clearing to maintain roadways, potential mining will remove completely

Comments:

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Jepson Manual
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: _____

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 05/05/2009

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Chorizanthe rectispina*

Common Name: Straight-awned spineflower

Species Found? Yes No _____
If not, why? _____

Total No. Individuals <10 Subsequent Visit? yes no
Is this an existing NDDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: LFR (Mary Carroll, S. Bernstein, M. Siemens)

Address: 301 S. Miller St. Ste. 210
Santa Maria CA 93454

E-mail Address: mary.carroll@lfr.com

Phone: (805) 478-0727

Plant Information

Phenology: _____% vegetative 100% flowering _____% fruiting

Animal Information

adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: San Luis Obispo Landowner / Mgr.: Private
Quad Name: Santa Margarita Elevation: 1180
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: M S Source of Coordinates (GPS, topo. map & type): Topo4
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: M S GPS Make & Model _____
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy _____ meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)
Coordinates: 10S720810mE 3921709mN 35 deg 24'51"N/120 deg 34'06"W

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Few individuals found in two locations in roadway opening of chaparral vegetation. Scattered individuals of associated herbaceous species include *Chaenactis glabruiscula* var. *lanosa*, *Chorizanthe staticoides*, *Lupinus hirsutissimus*.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: currently private, proposed rock quarry; existing rock quarry adjacent

Visible disturbances: good condition habitat, only visible disturb is fuelbreak dirt roadways

Threats: off-road vehicles, clearing to maintain roadways, potential mining will remove completely

Comments:

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Jepson Manual
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: _____

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 05/05/2009

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Gilia tenuiflora* subsp. *amplifaucalis*

Common Name: Trumpet-throated gilia (greater yellowthroat, spreading slender-flowered gilia)

Species Found? Yes No If not, why? _____

Total No. Individuals 8 Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: LFR (Mary Carroll and Susi Bernstein)

Address: 301 S. Miller St. Ste. 210
Santa Maria CA 93454

E-mail Address: mary.carroll@lfr.com

Phone: (805) 478-0727

Plant Information

Phenology: _____% vegetative 100% flowering _____% fruiting

Animal Information

adults # juveniles # larvae # egg masses # unknown
wintering breeding nesting rookery burrow site other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: San Luis Obispo Landowner / Mgr.: Private
Quad Name: Santa Margarita Elevation: 1180
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): Topo4
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model _____
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy _____ meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)
Coordinates: 10S720810mE 3921709mN 35 deg 24'52"N/120 deg 33'54"W

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Few individuals in openings of chaparral. Associated species include *Adenostoma fasciculatum*, *Rhamnus ilicifolia*, *Melica imperfecta*, *Camissonia californica*.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: currently private, proposed rock quarry; existing rock quarry adjacent

Visible disturbances: good condition habitat, only visible disturb is fuelbreak dirt roadways

Threats: off-road vehicles, clearing to maintain roadways, potential mining will remove completely

Comments:

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Jepson Manual
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: _____

Photographs: (check one or more)

	Slide	Print	Digital
Plant / animal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diagnostic feature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 06/09/2009

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Navarretia nigelliformis subsp. radians*

Common Name: shining navarretia

Species Found? Yes No If not, why? _____

Total No. Individuals 50-100 Subsequent Visit? yes no

Is this an existing NDDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: LFR (Susi Bernstein and Mary Carroll)

Address: 301 S. Miller St. Ste. 210

Santa Maria CA 93454

E-mail Address: susanne.bernstein@lfr.com

Phone: (805) 349-7180

Plant Information

Phenology: _____% vegetative 100% flowering _____% fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: San Luis Obispo Landowner / Mgr.: Private

Quad Name: Santa Margarita Elevation: 1180

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): Topo4

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model _____

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy _____ meters/feet

Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)

Coordinates: 10S720810mE 3921709mN 35 deg 24'51"N/120 deg 34'06"W

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Occasional in openings of chaparral slopes and adjacent dirt roadway, in heavy soil. Scattered associated species of Eriodictyon tomentosum and native herbaceous species (e.g., Chorizanthe staticoides, Cryptantha muricata).

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: currently private, proposed rock quarry; existing rock quarry adjacent

Visible disturbances: good condition habitat, only visible disturb is fuelbreak dirt roadways

Threats: off-road vehicles, clearing to maintain roadways, potential mining will remove completely

Comments:

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Jepson Manual
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: _____

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 06/09/2009

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Amphispiza belli*

Common Name: Bell's sage sparrow

Species Found? Yes No If not, why? _____

Total No. Individuals 4 Subsequent Visit? yes no

Is this an existing NDDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Mitch Siemens

Address: 187 Fair View Drive, Arroyo Grande, CA

E-mail Address: Mitch.Siemens@lfr.com

Phone: (805) 878-4286

Plant Information

Phenology: _____% vegetative _____% flowering _____% fruiting

Animal Information

2 # adults 2 # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: San Luis Obispo Landowner / Mgr.: Private
Quad Name: Santa Margarita Elevation: 1417
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): topo 4 progr
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model _____
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy _____ meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)
Coordinates: 35 deg 25' 00" N - 120 deg 33' 53" W

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Hilly chaparral dominated terrain over crushed granite soils with occasional granite outcrops. Dominants include chamise, buckbrush, black sage and big berry manzanita. Two adults observed feeding two fledged young.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Vast open space dominated by chaparral covered hillsides and oak woodland in the valleys

Visible disturbances: Suburban sprawl common and mining operations nearby

Threats: Site is proposed for aggregate mining operation

Comments: Classic habitat for this species.

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Sibley Field guide
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: extensive personal birding experience

Photographs: (check one or more)

	Slide	Print	Digital
Plant / animal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diagnostic feature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____
Eim Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 05/05/2009

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Phrynosoma coronatum ssp. frontale*

Common Name: California horned lizard

Species Found? Yes No _____
If not, why?

Total No. Individuals 5 Subsequent Visit? yes no

Is this an existing NDDDB occurrence? yes, Occ. # _____ no unk.

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Mitch Siemens

Address: 301 South Miller Street Suite 210, Santa Maria, C

E-mail Address: mitch.siemens@lfr.com

Phone: (805) 878-4286

Plant Information

Phenology: _____% vegetative _____% flowering _____% fruiting

Animal Information

1 # adults 4 # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 breeding wintering burrow site rookery nesting other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: San Luis Obispo Landowner / Mgr.: Private

Quad Name: Santa Margarita Elevation: 1186

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): topo

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model _____

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy _____ meters/feet

Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)

Coordinates: 10S720810mE 3921709mN 35 deg 24'51"N / 120deg 34'06"W

Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/slope):

Chamise chaparral dominated hillsides with some rock outcrops and mixed oak woodland / scrub along drainages. Hilly terrain with typically sandy or gravel substrates. Dominants include chamise, poison oak, buckwheat, oak trees, ceonothus, manzanita

Other rare taxa seen at THIS site on THIS date:
(separate form preferred)

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: property proposed for gravel mine

Visible disturbances:

Threats: off-road vehicles, clearing to maintain roadways, potential mining will remove completely

Comments: Pristine site with lots of native plants and little history of disturbance.

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Stebbins 1985
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: field experience / history

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

North Creek Watershed Analysis

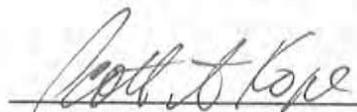
for

Las Pilitas Rock Quarry

San Luis Obispo County, California



TARTAGLIA ENGINEERING
CIVIL ENGINEERS
ATASCADERO, CALIFORNIA


Scott A. Kope, Civil Engineer
R.C.E. 59,537
September 2009