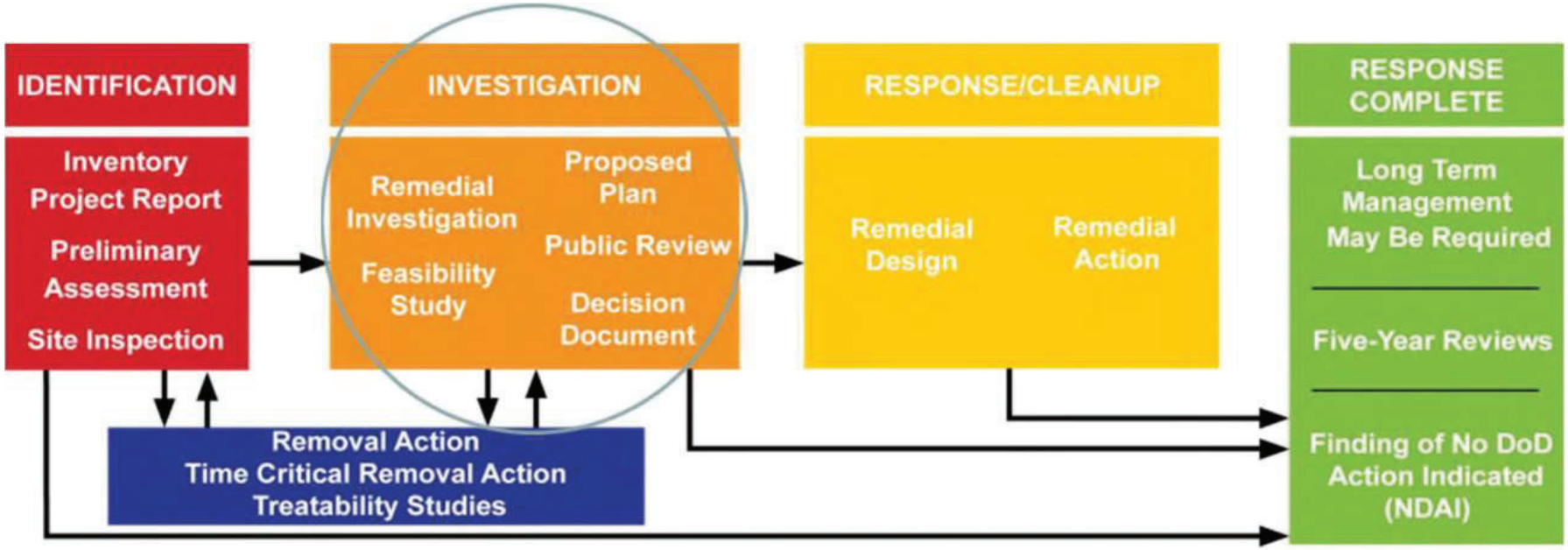
PROCESS OVERVIEW FOR FUDS

Project is currently at this stage



(U.S. Army Corps of Engineers Environmental Regulation 200-3-1, FUDS Program Policy, May 2004)

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FORMER IRVINE PARK – ARMY CAMP SITE DETAILS

Project Location/Current Site Status

- Located in Orange County, California.
- Consists of mostly open space. There is also a small portion of the MRS that covers a residential area to the northwest.
- Terrain is rugged with steep hills and deep drainage valleys, with some areas of gently rolling hills and flat developed areas.
- Currently owned by Orange County (including Public Works and the Flood Control Division) and the Boy Scouts of America, and Orange County Council.
- Current site use includes the Irvine Regional Park, the Outdoor Education Center, recreation (hiking), and flood water control for Santiago Creek.
- Most of the original 225 acres of Irvine Park – Army Camp is currently owned by Orange County, California and is used as a park (Irvine Regional Park).
- Land use at the site is not anticipated to change in the near future.

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CURRENT CONDITIONS

Fire burned 21 Acres and led to closure of Irvine Regional Park on 05 July 2020.

Currently there are two fires that are burning near Irvine Park:

- Blue Ridge Fire
  - North
- Silverado Fire
  - South

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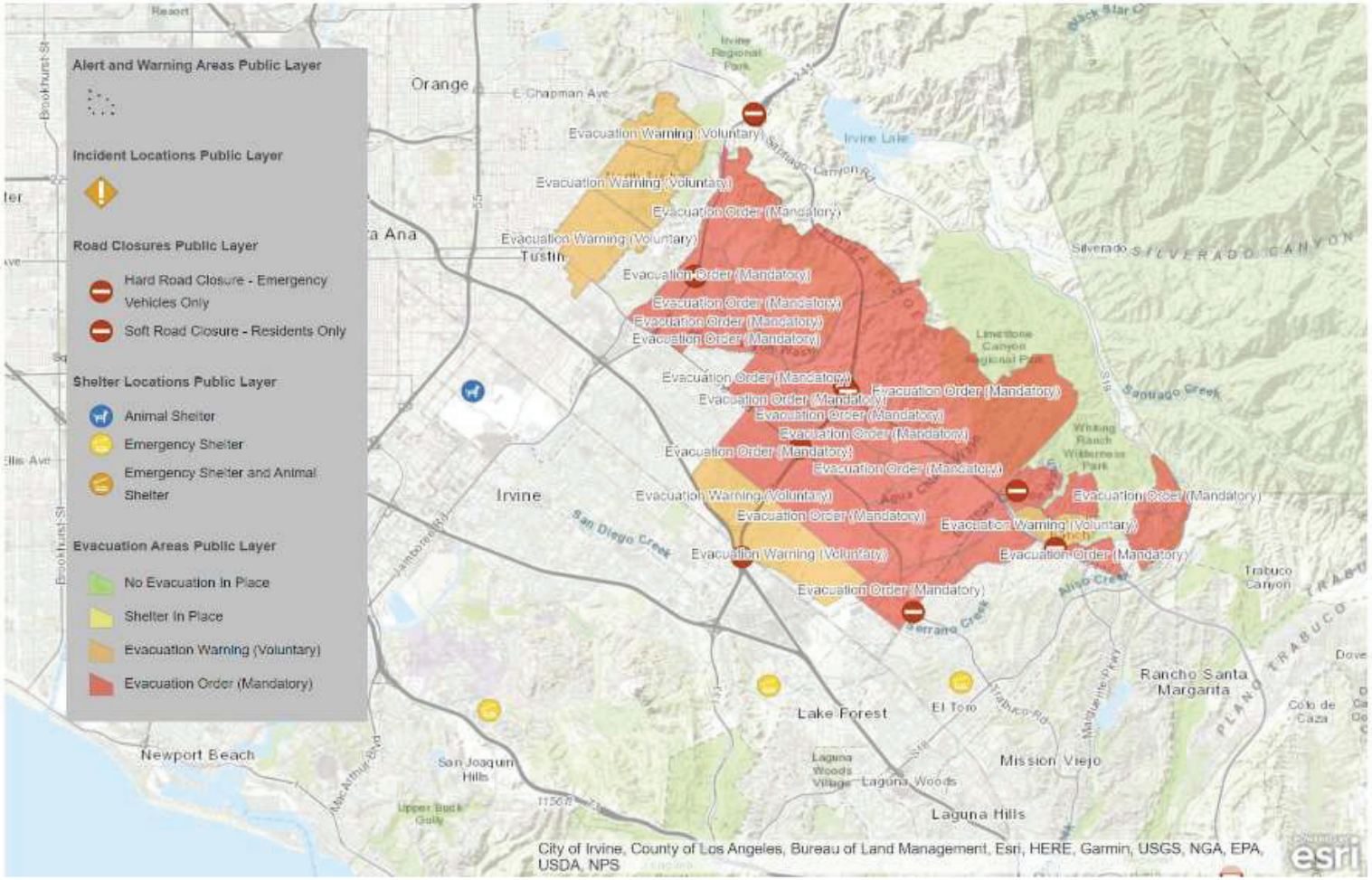

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FORMER IRVINE PARK – ARMY CAMP SITE DETAILS

Site History

- Used from 1943– 1946 as a training center for combat troops in field exercises and command post exercises.
- Issued, cleaned, tested small arms, mobile and seacoast artillery targets, and conducted vehicle maintenance.
- MRS boundary (MRS01) is 3,352 acres comprised of four overlapping sub-ranges to include a mortar range, rifle range, infiltration course, and live hand grenade court.

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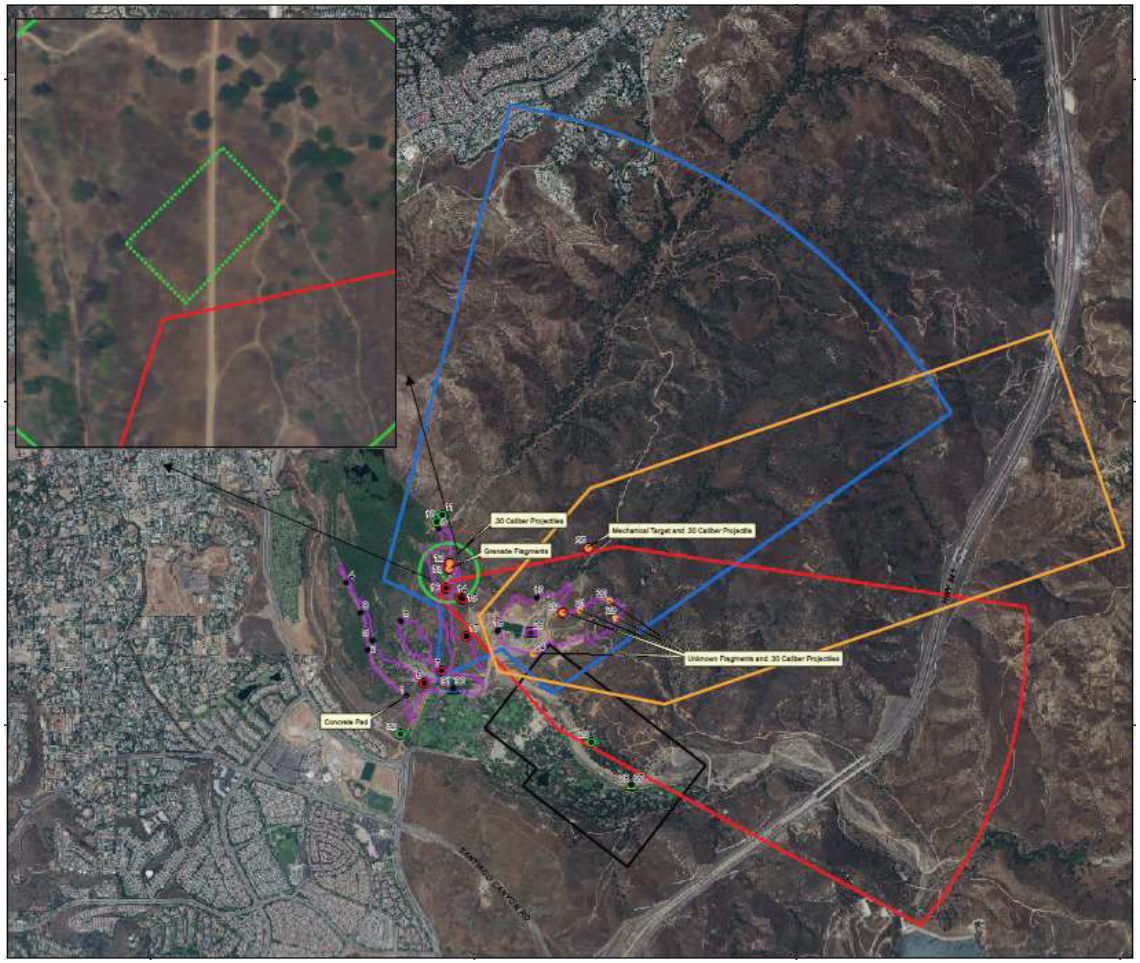
FORMER IRVINE PARK – ARMY CAMP



Legend

- 12 Munitions Debris Observations
- 1 General Observations
- Ambient Soil Sample Location
- Biased Soil Sample Location
- Ambient Surface Water/Sediment Sample Location
- Biased Surface Water/Sediment Sample Location
- Groundwater Sample Location
- Infiltration Course (Revised location based on review of the 2001 ASR. Revised orientation based on field observations made during the 2011 SI field effort)
- Rifle Range (Suspected location/orientation based on information provided in the 2001 ASR)
- Mortar Range (Location provided by the 2008 ASR Supplement)
- Grenade Court
- FUDS Boundary
- Qualitative Reconnaissance Track

Image: 2009 Orthophoto
Projection: UTM Zone 11 NAD83, Map Units in Meters

500 250 0 500 Meters

N

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SUB-AREA: RIFLE RANGE

- 1,233 acres.
- Within Villa Park Dam area.
- Private use as a rifle/shotgun range prior to WWII.
- Horseshoe-shaped hill. approximately 30-40 ft high
- No prior finds (MEC or MD) during prior investigations.

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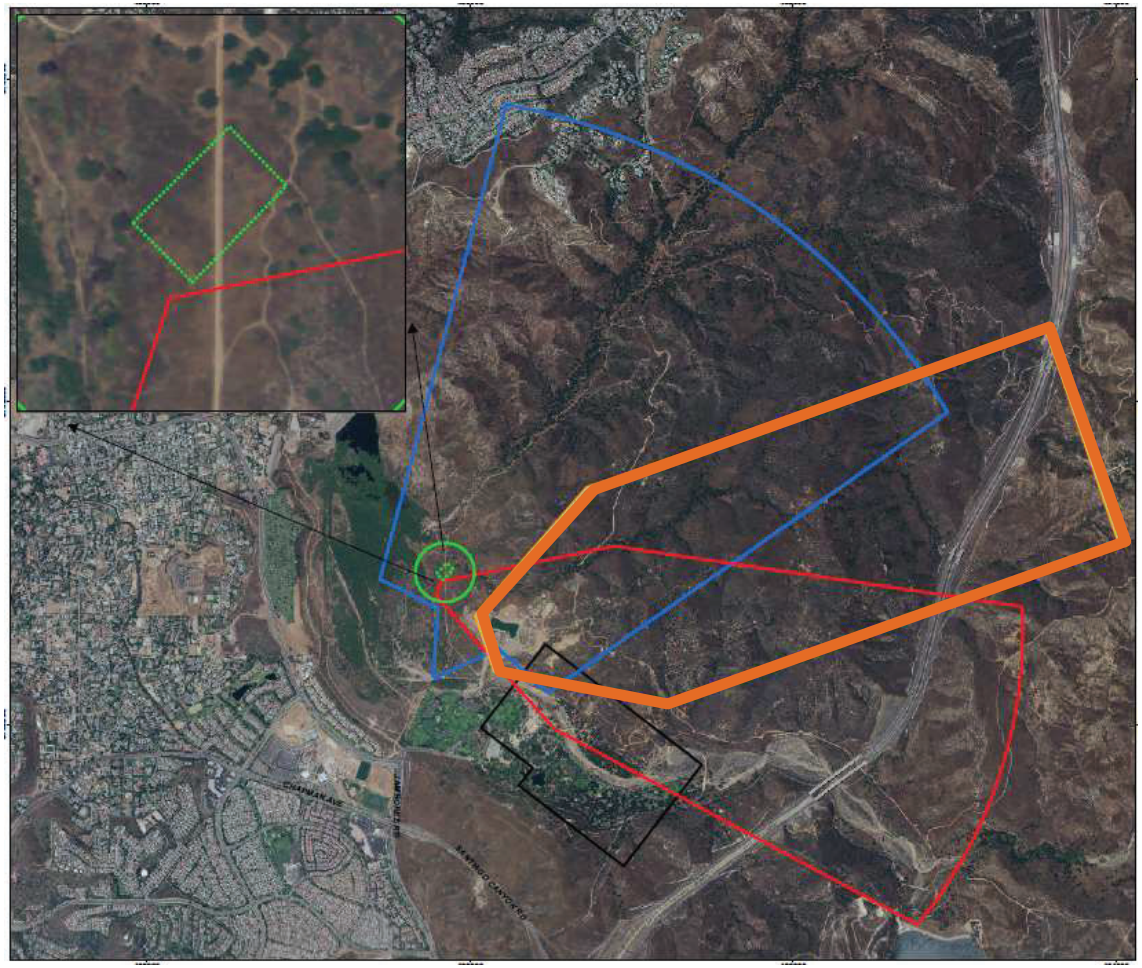
SUB-AREA: INFILTRATION COURSE



- 1,259 acres.
- Within Villa Park Dam area overlapping the Mortar Range.
- Surrounding area used to graze cattle.
- Approximately 100 yards long.
- Rounds fired would have impacted the base of the hill located approximately 300 to 400 yards away from firing platforms.
- Converted to a private gun club range after WW II.
- Expended small arms ammunition found during site inspection and .30 caliber projectiles.

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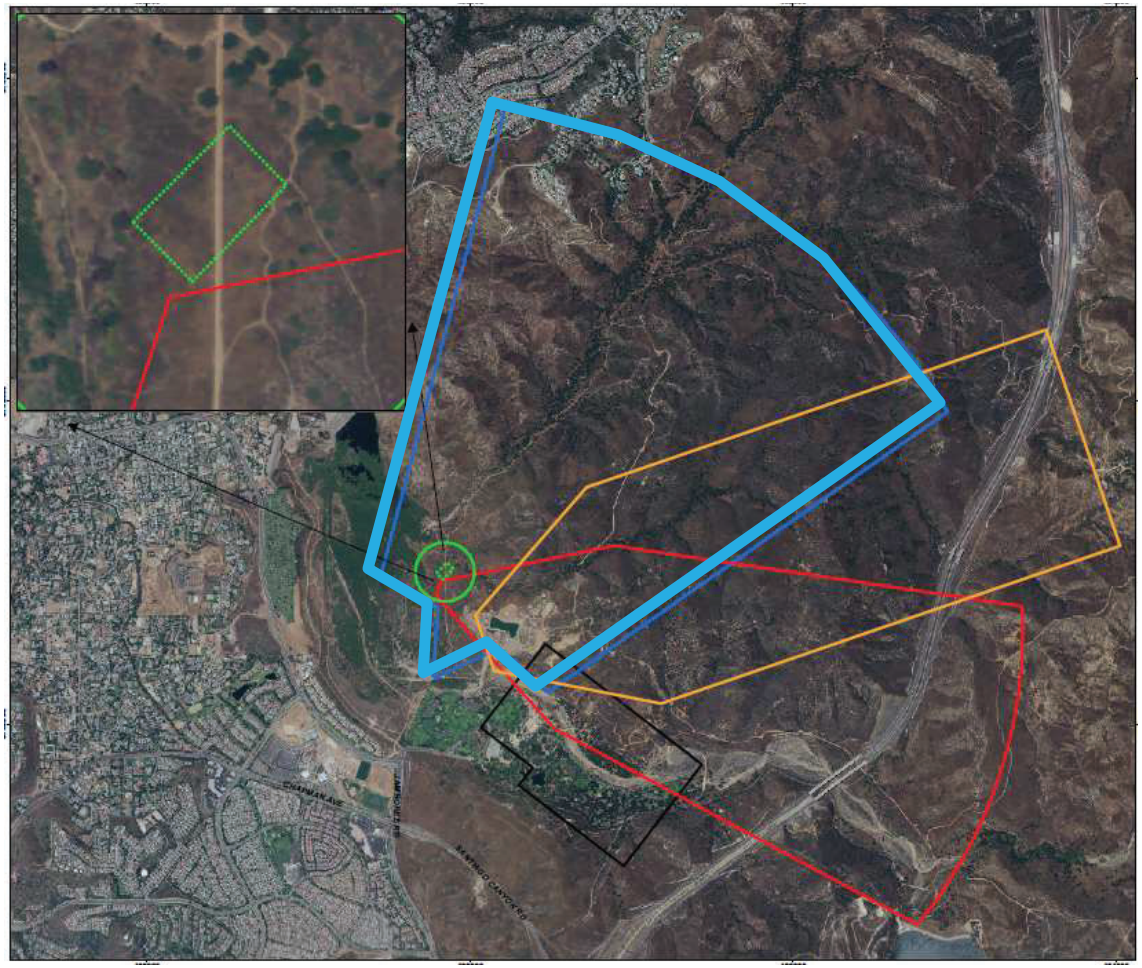
SUB-AREA: MORTAR RANGE



- 1,866 acres, 25 acres of vegetation free land during use.
- Located 0.3 miles behind the infiltration course.
- Used for night training using illumination rounds (60mm and 81 mm rounds).
- Firing point was the Sully Miller gravel pit, further evaluation of site boundaries is recommended.
- No prior finds (MEC or MD) during prior investigations.

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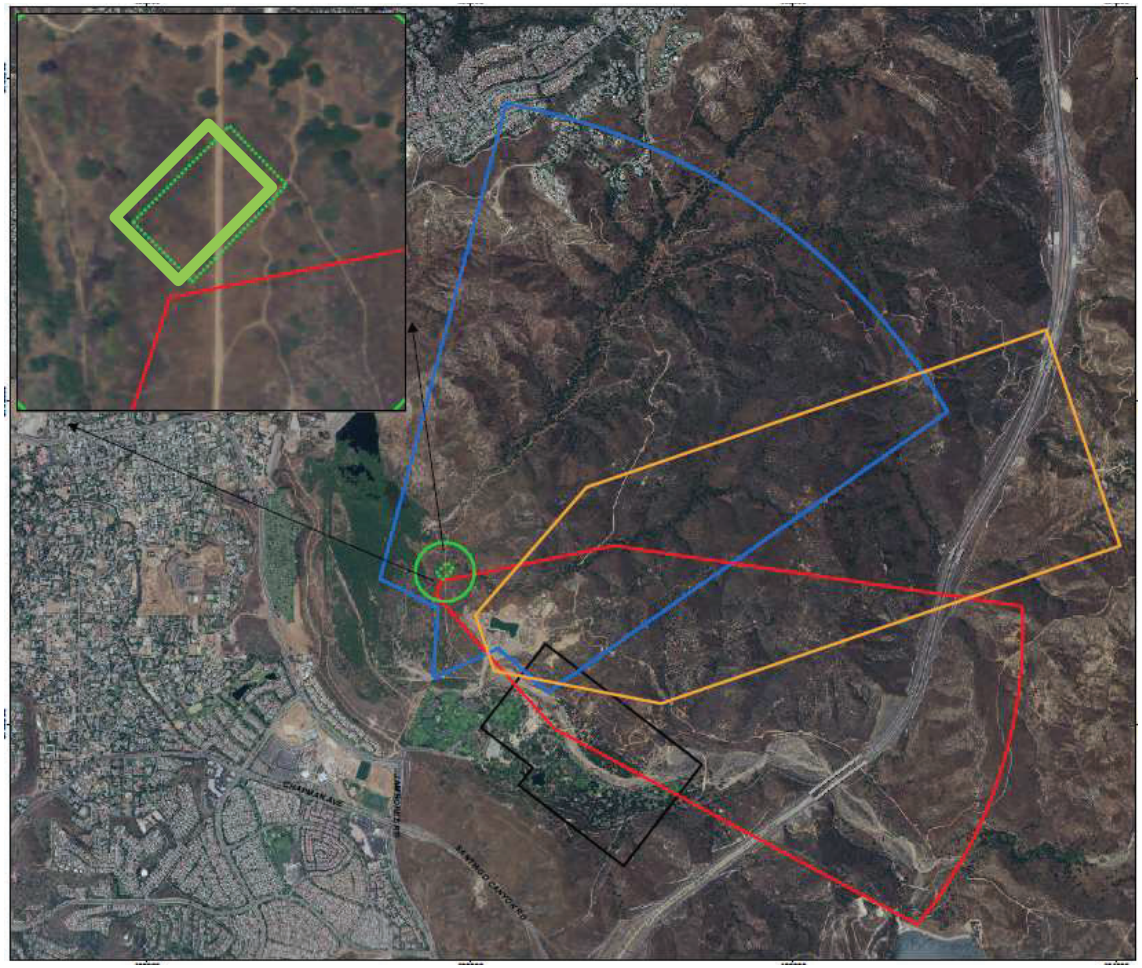
SUB-AREA: LIVE GRENADE COURT



- 25.88 acres.
- Discovered during 2011 SI field effort.
- 1946 Aerial Photo reveals features that appear to be parallel trenches, fox holes and/or earthen berms trending in a northwest to southeast direction in the same area where MKII hand grenade fragments were observed.

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2011 SI SUMMARY AND RESULTS

- SI was performed to evaluate evidence for the presence of munitions and explosives of concern (MEC), munitions debris (MD), munitions constituents (MC) at the Irvine Park – Army Camp.
- A potential live grenade court was identified and not known to be present before the SI.
- Potential additional training activities occurred that were not known prior to the SI.
  - High Explosive (HE) fragments were observed during the SI field effort and not known prior.
  - Large mechanical target was located northeast of the Outdoor Education center.
- MC data shows there is potential MC contamination present in soil:
  - 8 MC metals were detected in the groundwater sample taken at MRS01.
    - Aluminum, antimony, barium, copper, lead, manganese, mercury, and zinc.
- No MEC was observed during the SI.
  - MD including MKII hand grenade fragments, and unidentified. HE projectile fragments were observed.

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2011 SI SUMMARY AND RESULTS

MD associated with Irvine Park- Army Camp

MKII Hand Grenade Fragments

MD from unidentified HE Projectiles

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ROE STATUS

There are currently 149 Parcels identified within the boundaries of MRS01

- 125 are private landowners and associations.
  - 29 are listed under Anaheim Ridge LLC.
- 14 are listed under Orange County.
- 4 are listed under Orange County Harbors, Beaches and Parks District.
- 2 are listed under Orange County however the easement is under Southern California Edison Company.
- 1 listed under Serrano Water district.

USACE Real-estate division is currently working on the ROE's needed for Field work

- 28 Parcels are currently Identified for the Biological Surveys.
  - 23 are parcels under Orange County and Orange County Harbors, Beaches and Parks District.
  - 4 are parcels listed under Anaheim Ridge LLC.
  - 1 parcel listed under Window Hills HOA.

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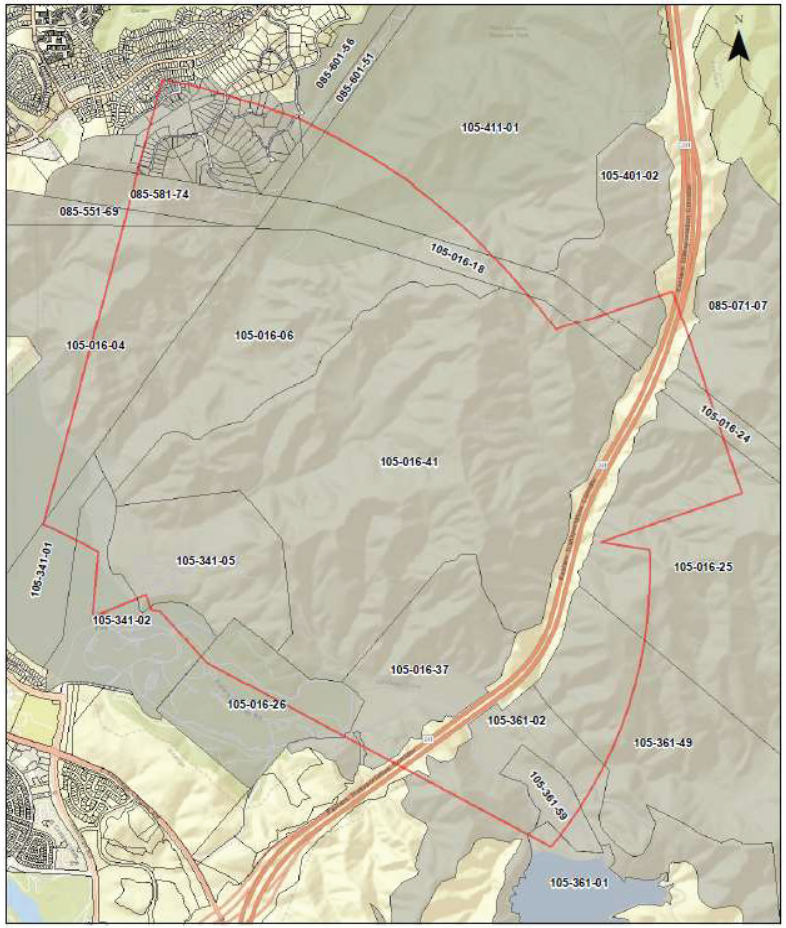
Irvine Park FUDS Project, Orange County, CA
Parcel Boundaries (1 of 2)



Legend

MRS Boundary *3,351.7 acres*

Parcel in MRS

0 500 1,000 2,000

Meters

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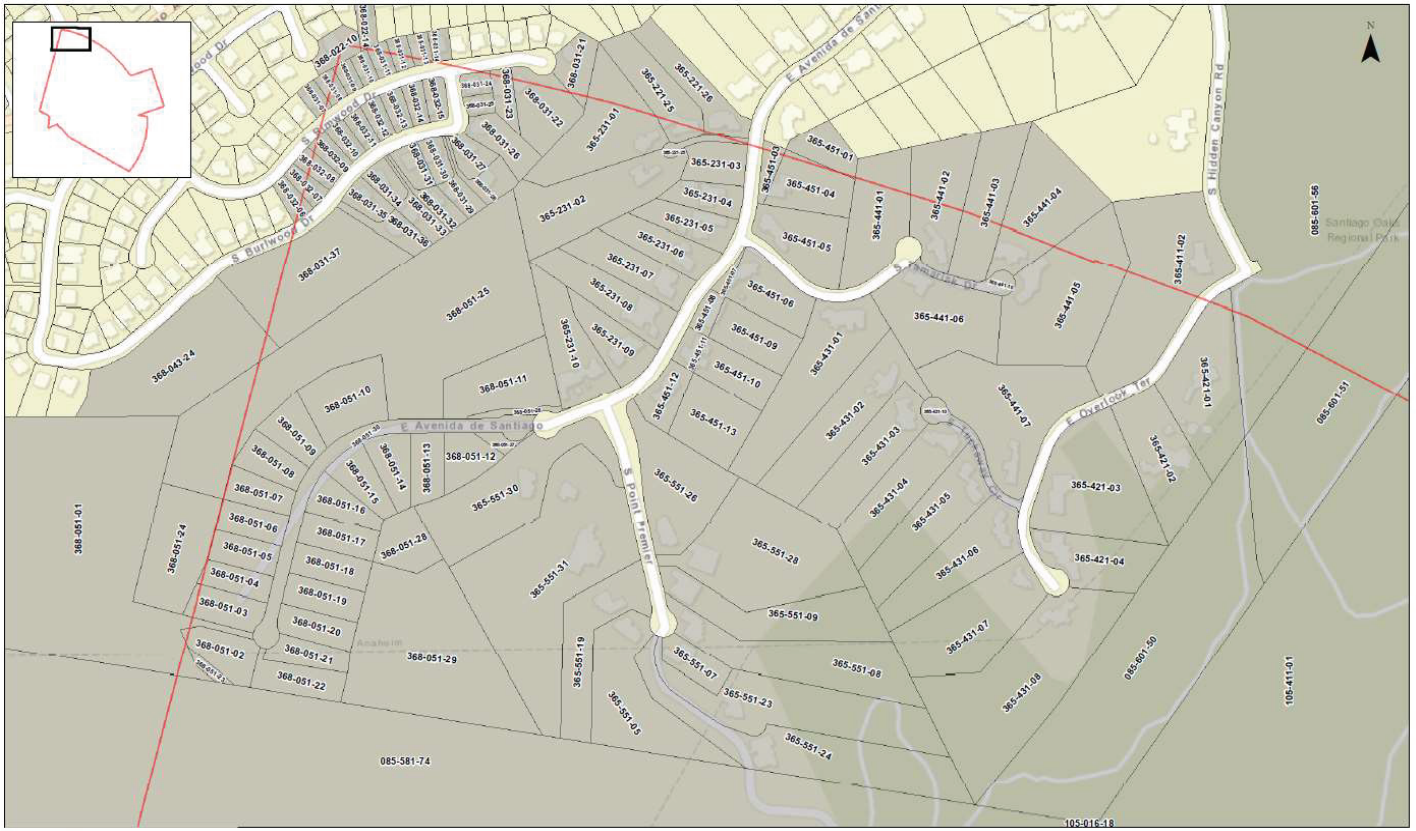
Irvine Park FUDS Project, Orange County, CA
Parcel Boundaries (2 of 2)



Legend

MRS Boundary *3,351.7 acres*

Parcel in MRS

0 125 250 500
Meters

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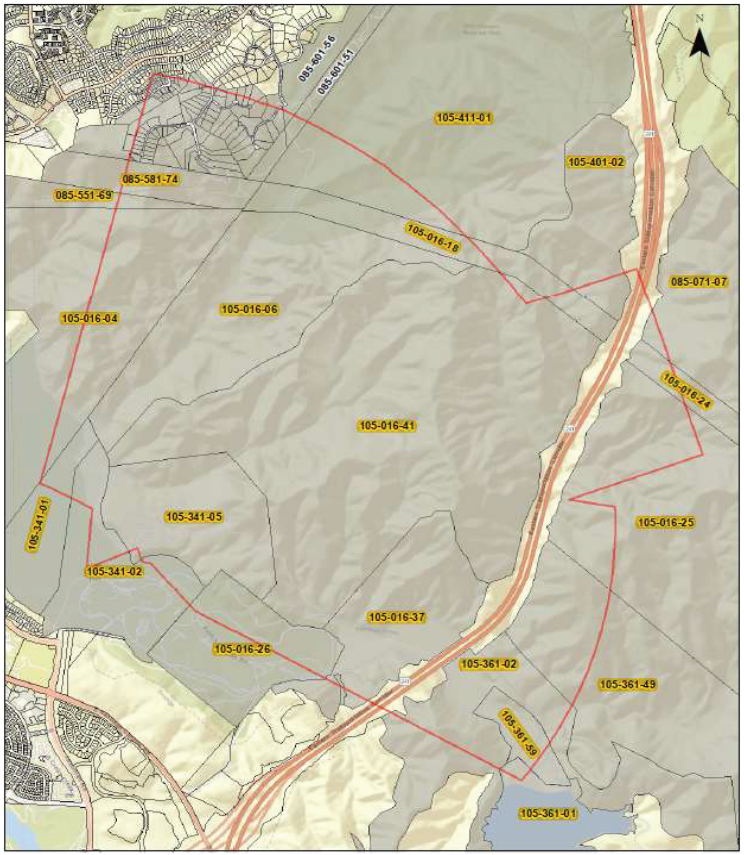
BIO Parcels

Irvine Park FUDS Project, Orange County, CA
Parcel Boundaries (1 of 2)



Legend

MRS Boundary *3,351.7 acres*

Parcel in MRS

0 500 1,000 2,000

Meters

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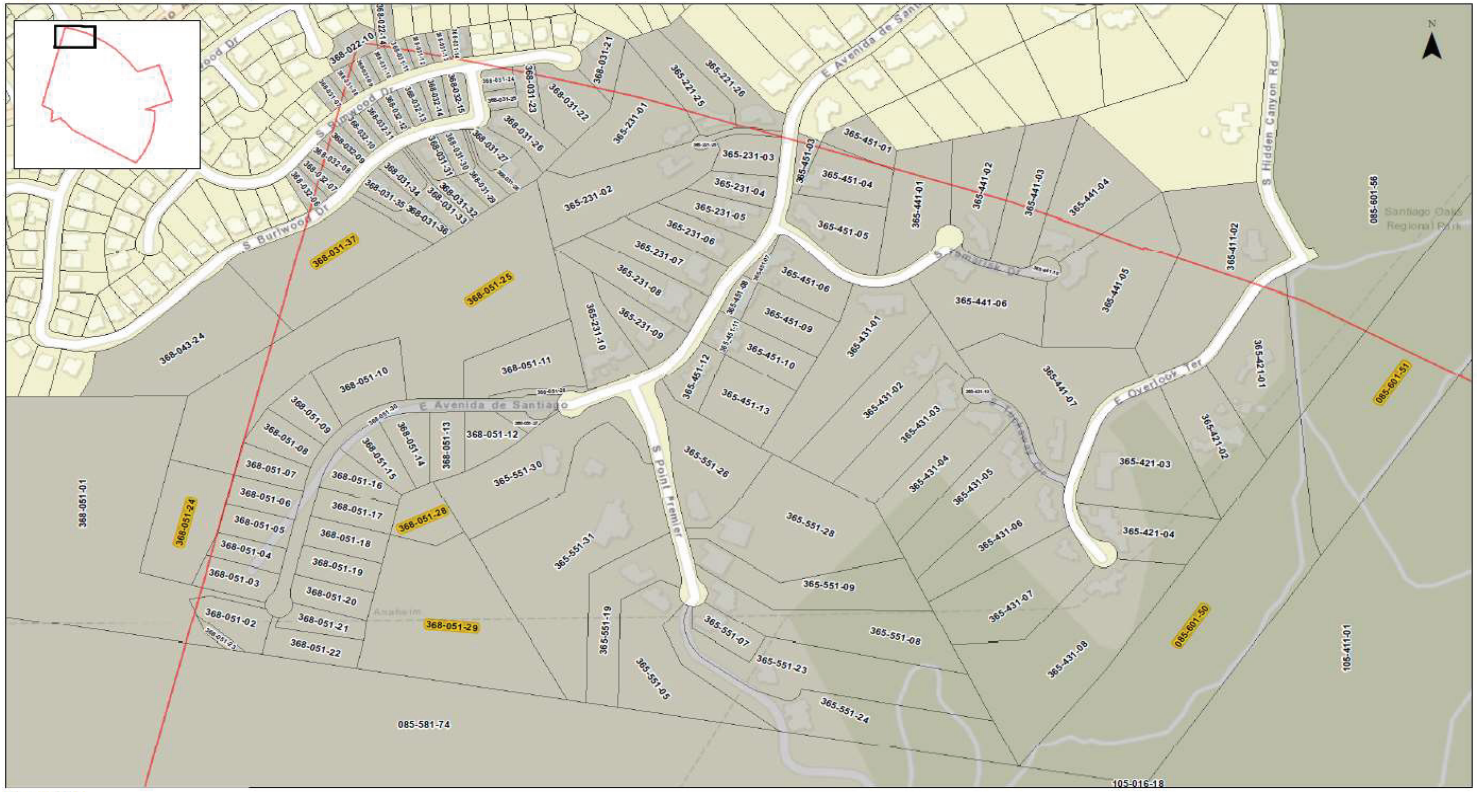
BIO Parcels

Irvine Park FUDS Project, Orange County, CA
Parcel Boundaries (2 of 2)



Legend

MRS Boundary *3,351.7 acres*
Parcel in MRS

0 125 250 500
Meters

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