

Legend

- Major Roads
- Former Fort Ord Boundary
- Interim Action Ranges MRA
- Other ESCA MRAs
- Historical Impact Area Boundary
- Impact Area MRA
- MRS Range 43-48
- Jurisdictional Property Transfer Boundary

Former Fort Ord Location Map

0 100 200 Miles

0 3,000 6,000 Feet

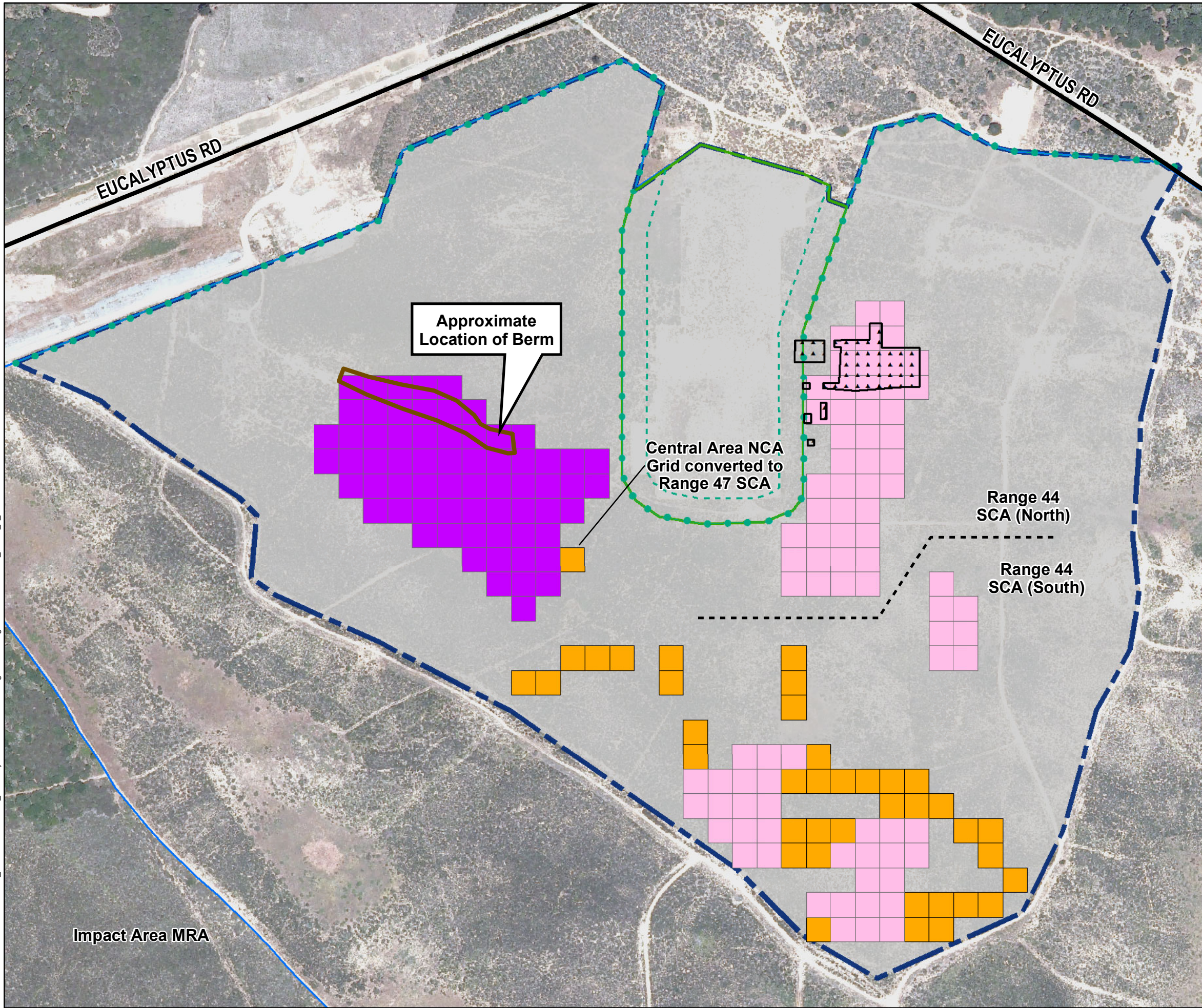
**Interim Action Ranges MRA
Location Map**

FORA ESCA RP
Monterey County, California

Figure 1-1

Document Path: Z:\GIS\PROJECTS\ENR\FortOrd\0959516_GIS\Projects\Interim Action_Range\IRAR\Fig1-1_2014-07-24_IAR_Location_Map.mxd

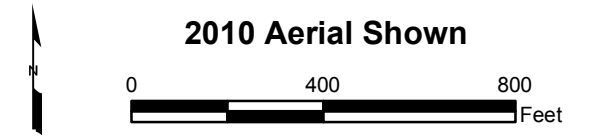
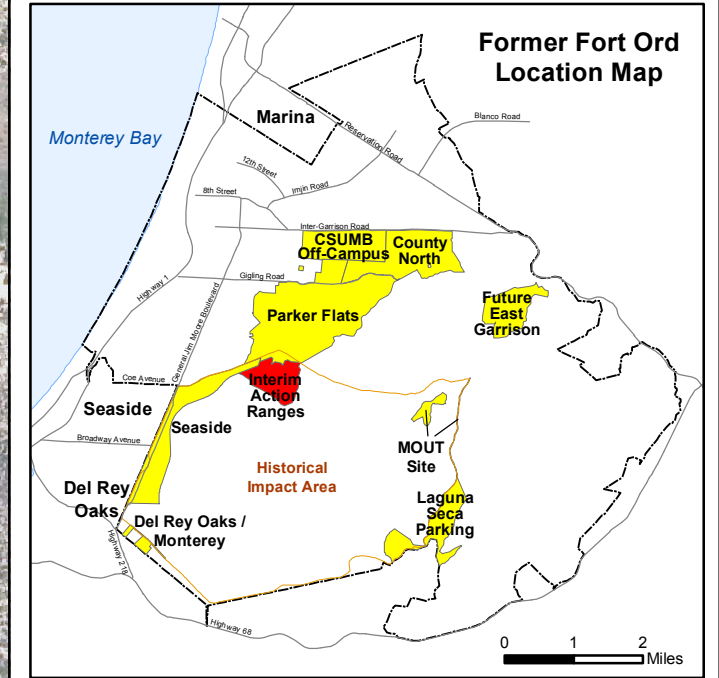
Document Path: Z:\GIS\PROJECTS_ENV\FIO\095956_GIS\Projects\Interim Action Ranges\IRACR\Fig1-2 2014-07-24 IAR_Phase II_Areas.mxd



Legend

Phase II Areas

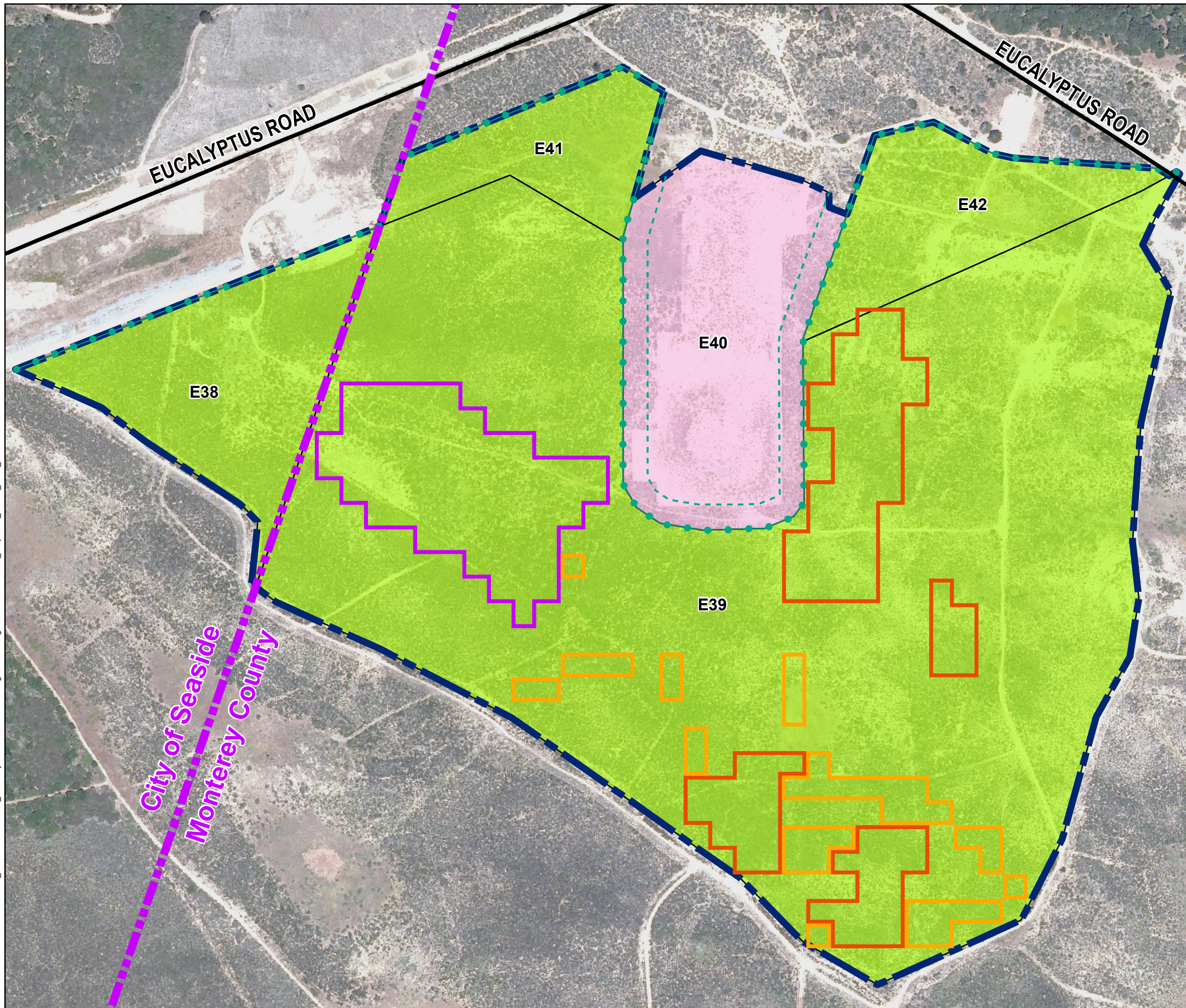
- Range 44 SCA - 18.9 ac.
- Range 47 SCA - 15.2 ac.
- Central Area NCAs - 9.2 ac.
- Phase I Area Completed by Army
- Army HA-44 Remediation Area - 1.8 ac.
- Interim Action Ranges MRA Boundary
- MRS Range 43-48 Boundary
- Major Road
- Borderland Interface
- 100-Foot Buffer from Borderland Interface



Interim Action Ranges MRA Phase II Areas

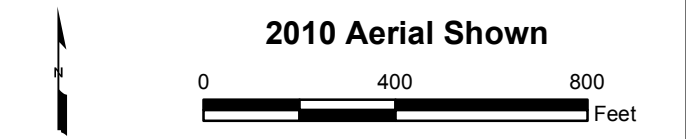
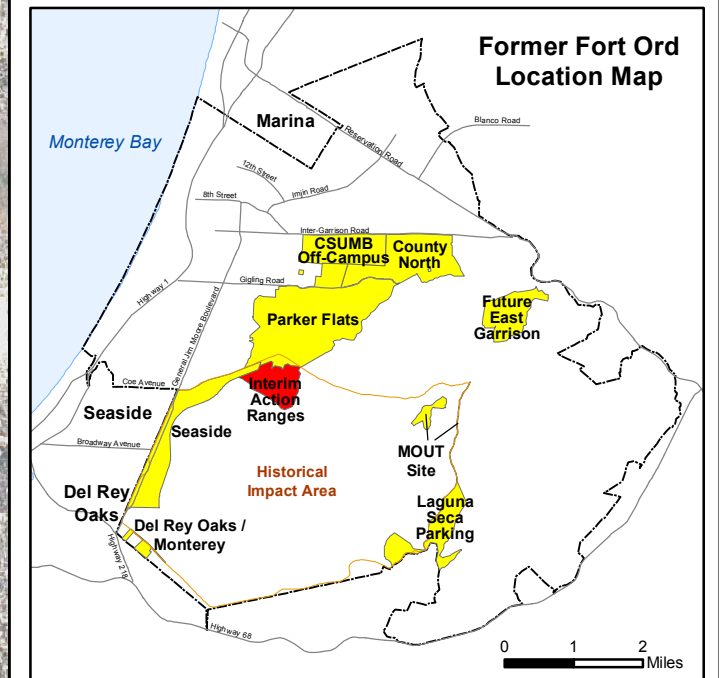
FORA ESCA RP
Monterey County, California

Figure 1-2



Legend

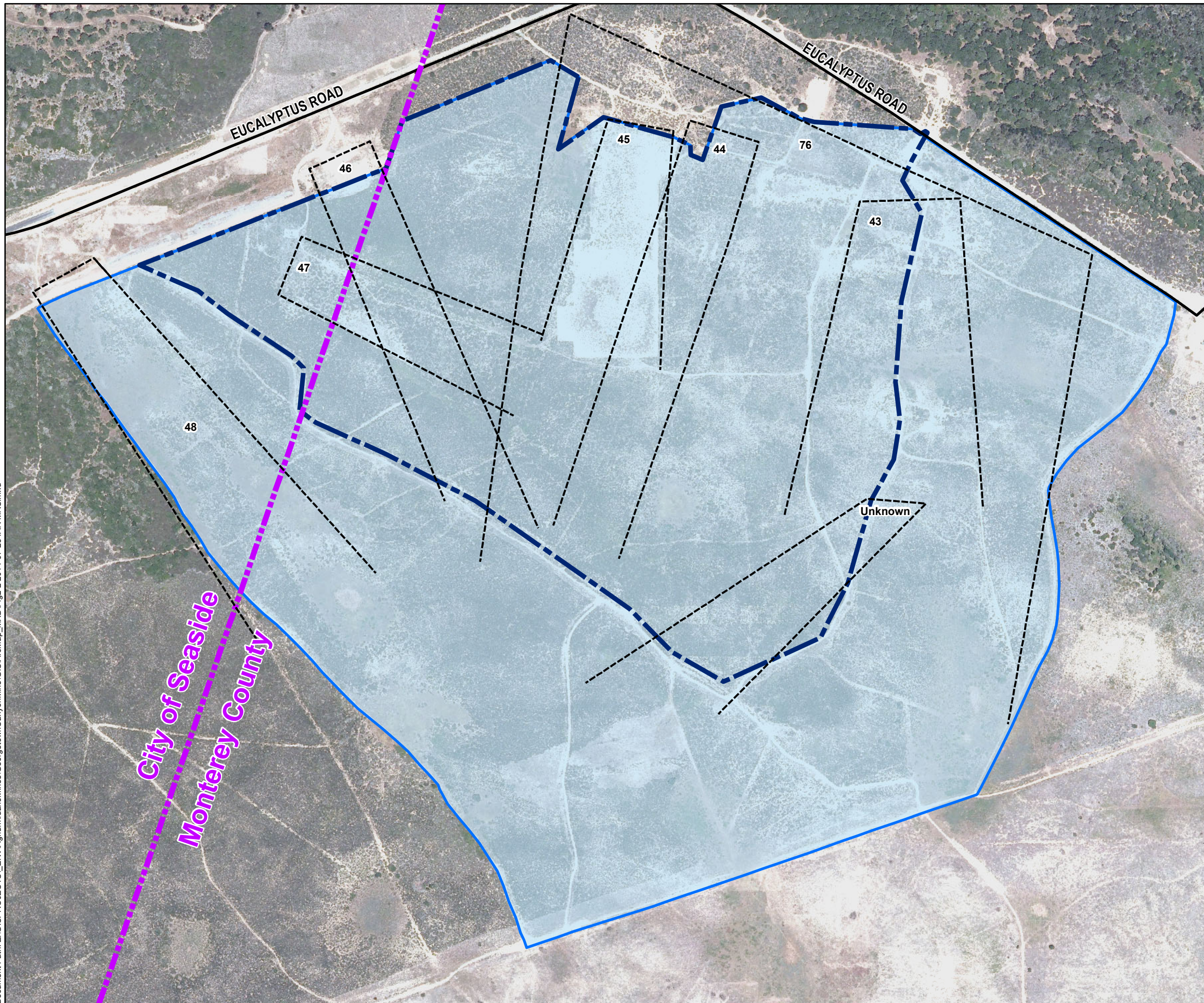
- Munitions Response Area
 - Major Road
 - USACE Parcel
 - Borderland Interface
 - 100-Foot Buffer from Borderland Interface
 - Jurisdictional Boundary
 - Range 44 SCA Boundary - 18.9 ac.
 - Range 47 SCA Boundary - 15.2 ac.
 - Central Area NCA Boundary - 9.2 ac.
- Proposed Future Land Use**
- Non-Residential
 - Habitat Reserve








**Interim Action Ranges MRA
Proposed Future Land Use**

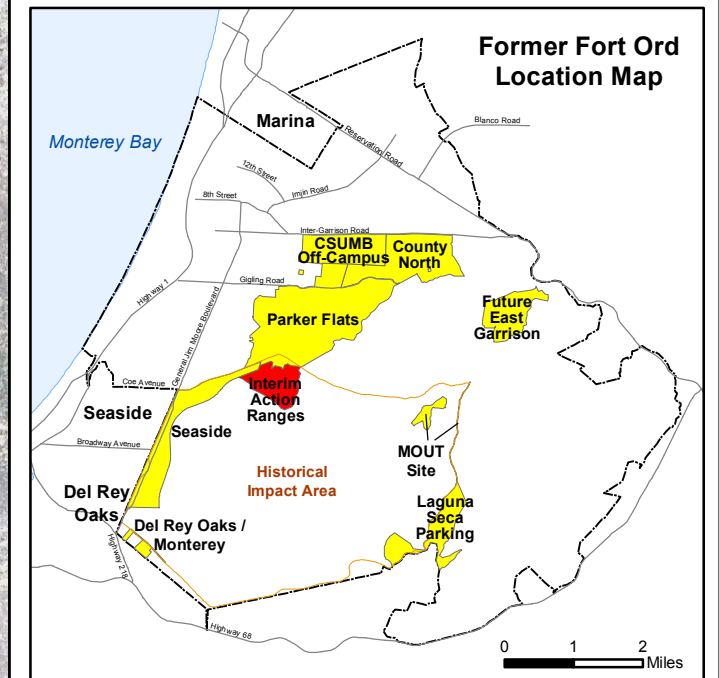
FORA ESCA RP
Monterey County, California

Figure 2-1

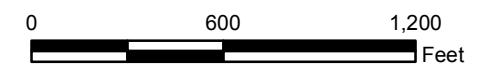


Legend

-  Munitions Response Area
-  Major Road
-  MRS Range 43-48
-  Jurisdictional Boundary
-  Range Boundary



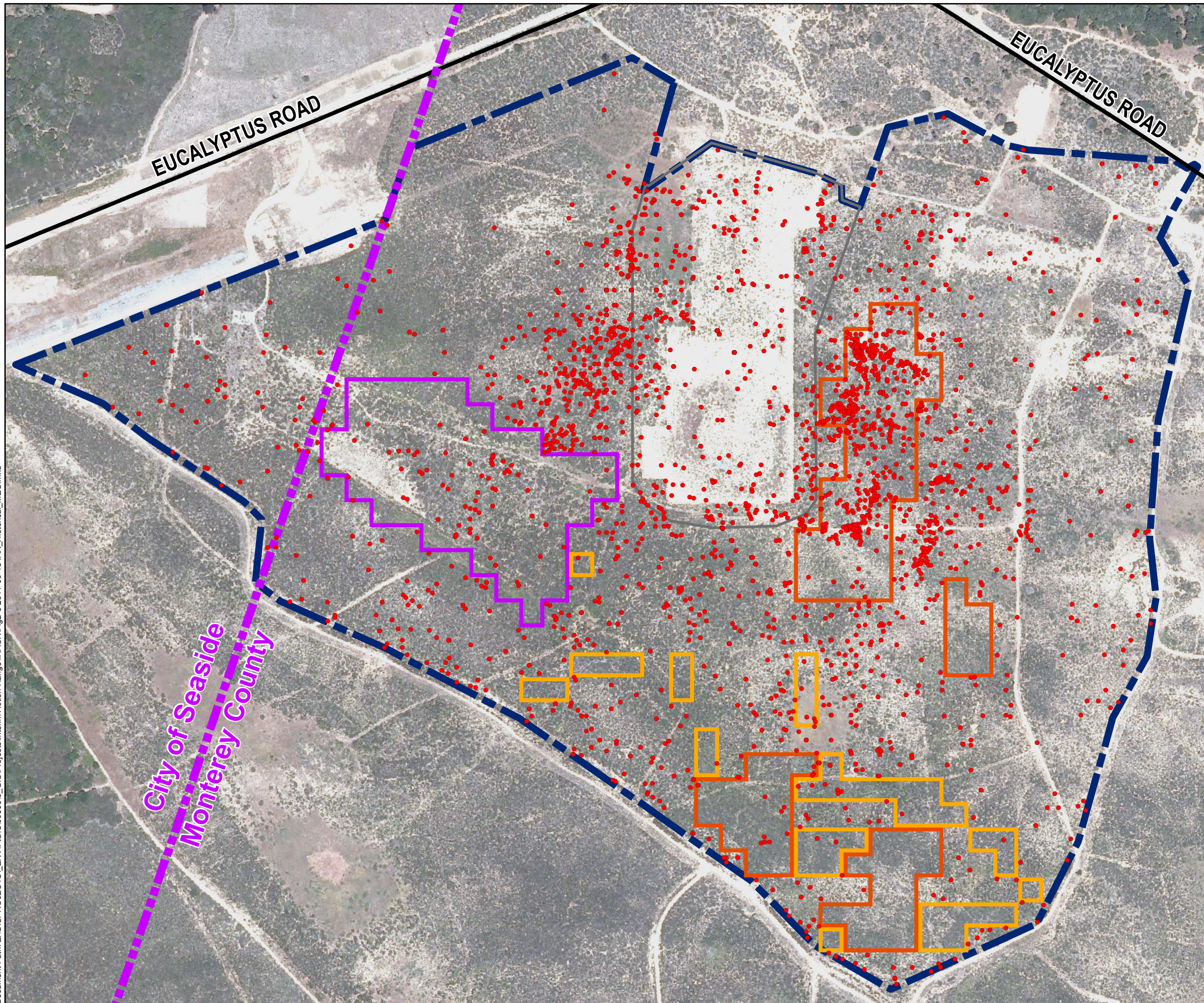
2010 Aerial Shown



Interim Action Ranges MRA Firing Ranges

FORA ESCA RP
Monterey County, California

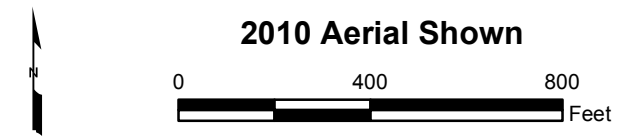
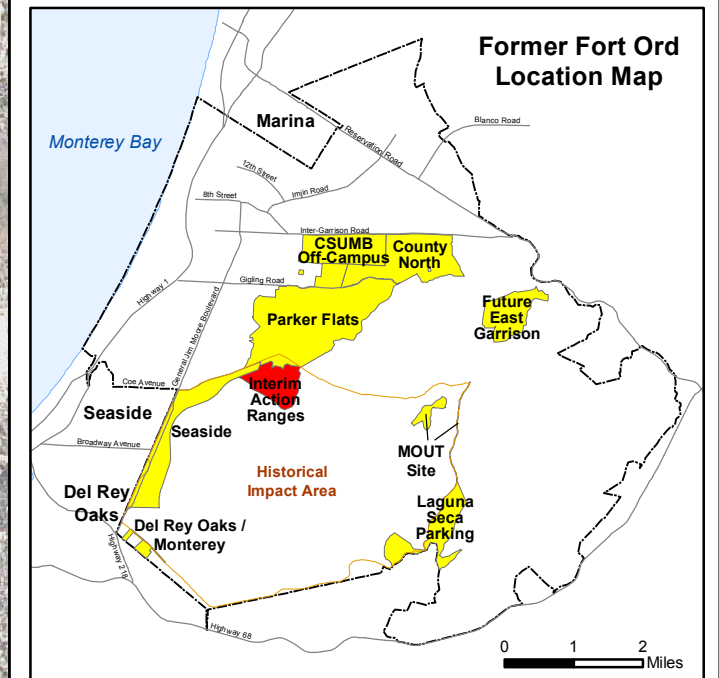
Figure 2-2



Legend

- Historical MEC Find*
- Munitions Response Area
- Major Road
- Development Parcel Boundary
- Jurisdictional Boundary
- Range 44 SCA Boundary - 18.9 ac.
- Range 47 SCA Boundary - 15.2 ac.
- Central Area NCA Boundary - 9.2 ac.

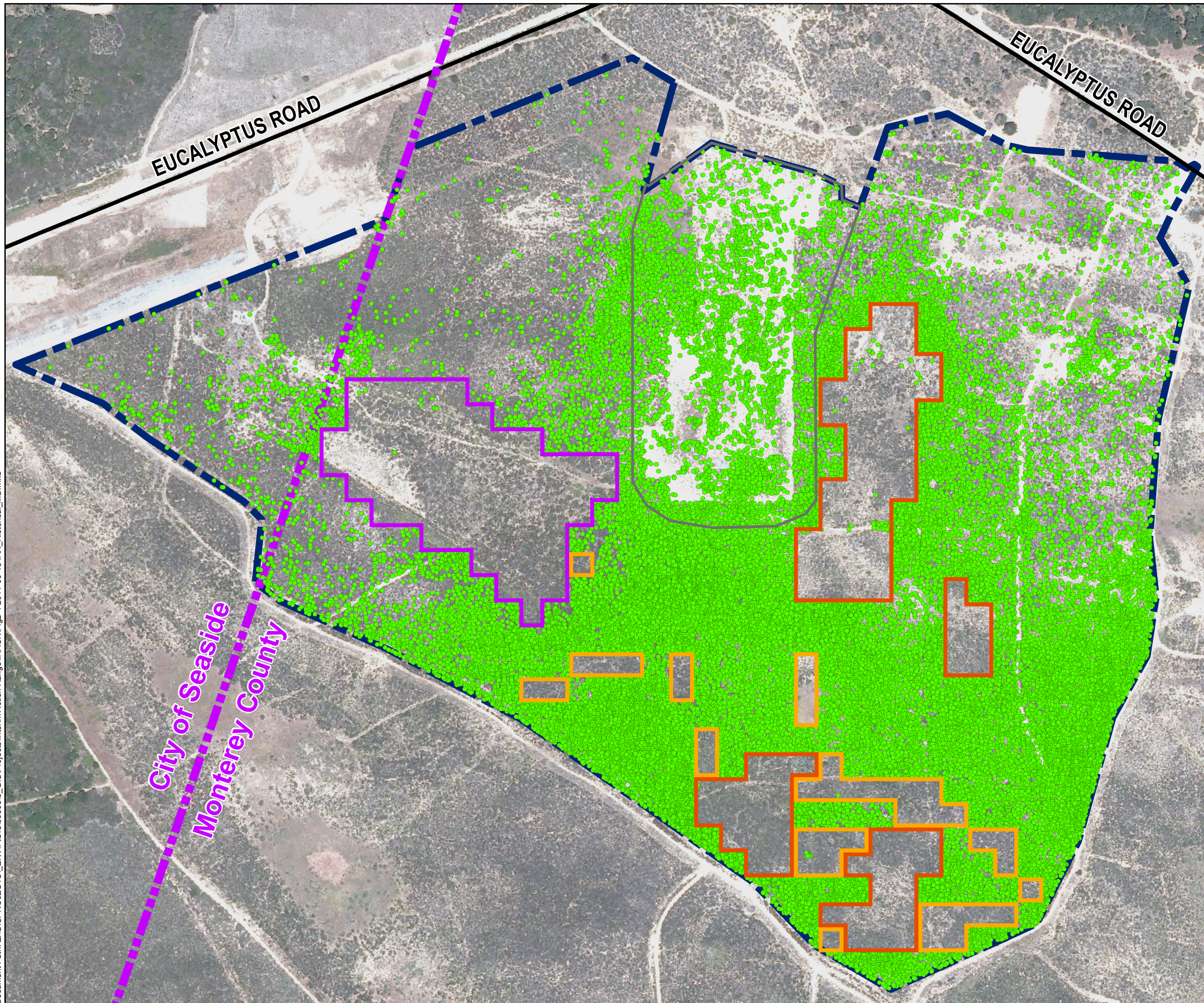
*Note: MEC locations may include more than one item. MEC recovered during Army sift operations in Range 45 are not included on this figure. See Table 2-1 for a complete listing of MEC recovered by the Army.



**Interim Action Ranges MRA
MEC Recovered During
Previous Removal Actions**

FORA ESCA RP
Monterey County, California

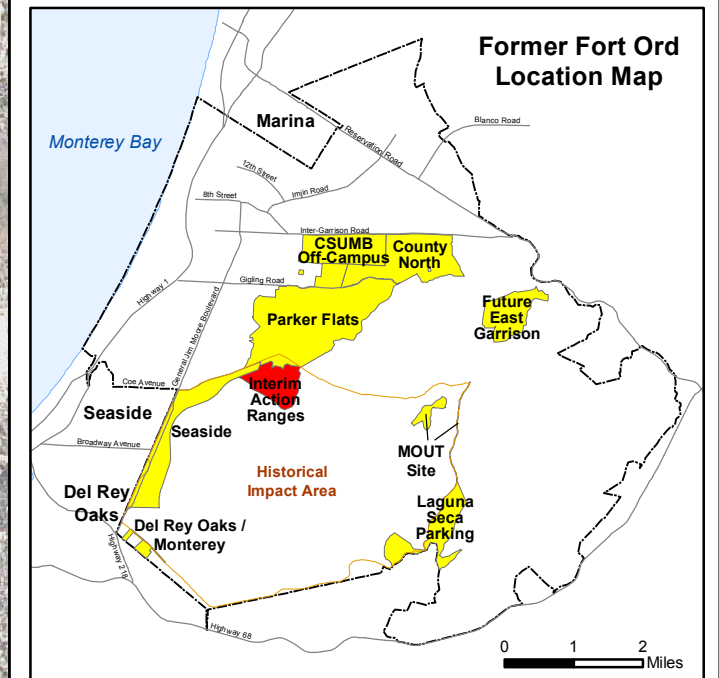
Figure 2-3



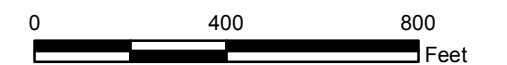
Legend

- Historical MD Find*
- Munitions Response Area
- Major Road
- Development Parcel Boundary
- Jurisdictional Boundary
- Range 44 SCA Boundary - 18.9 ac.
- Range 47 SCA Boundary - 15.2 ac.
- Central Area NCA Boundary - 9.2 ac.

*Note: MD locations may include more than one item. MD recovered during Army sift operations in Range 45 and during the Interim Action surface removal and analog subsurface removal are not included on this figure.



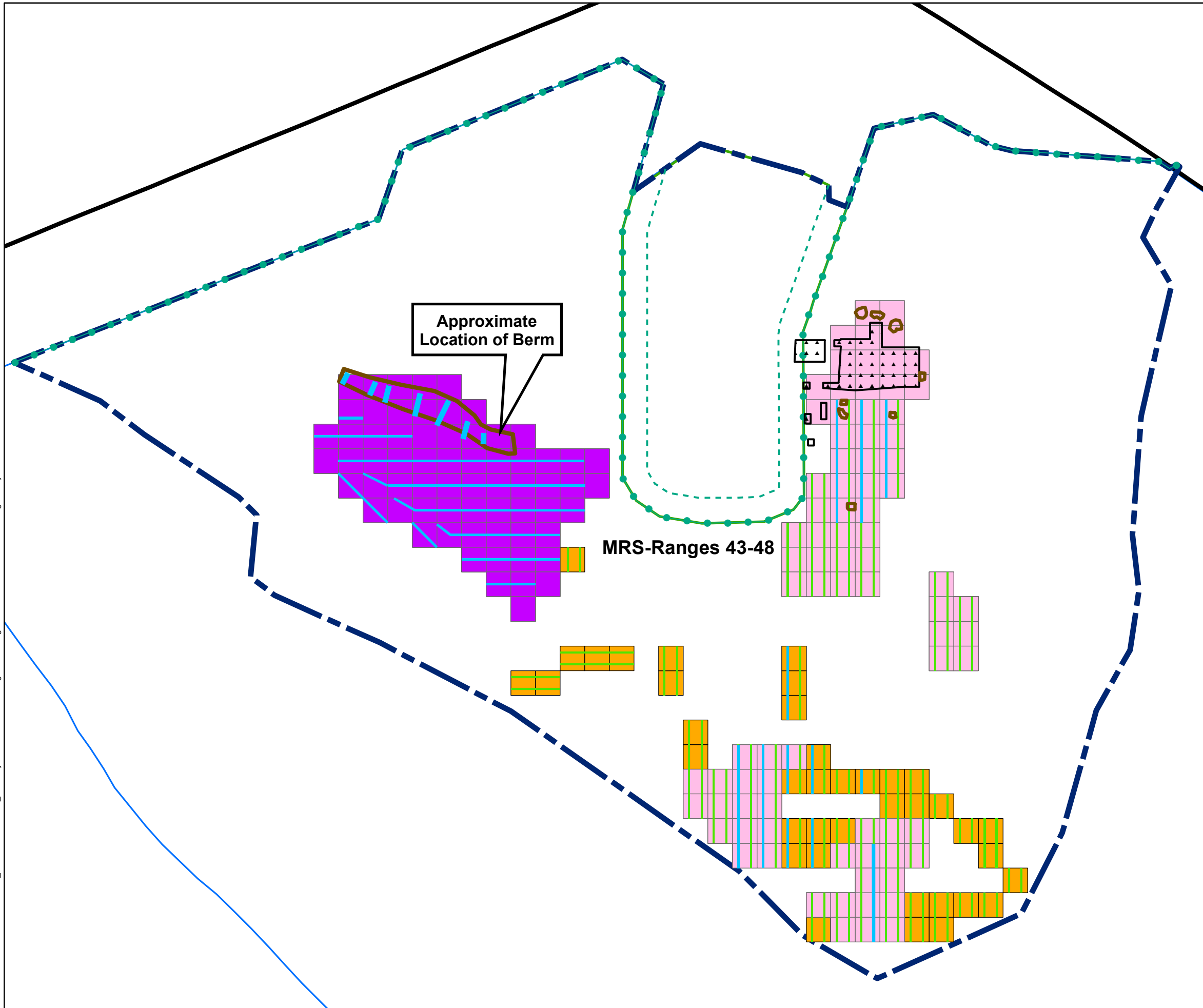
2010 Aerial Shown



**Interim Action Ranges MRA
MD Recovered During
Previous Removal Actions**

FORA ESCA RP
Monterey County, California

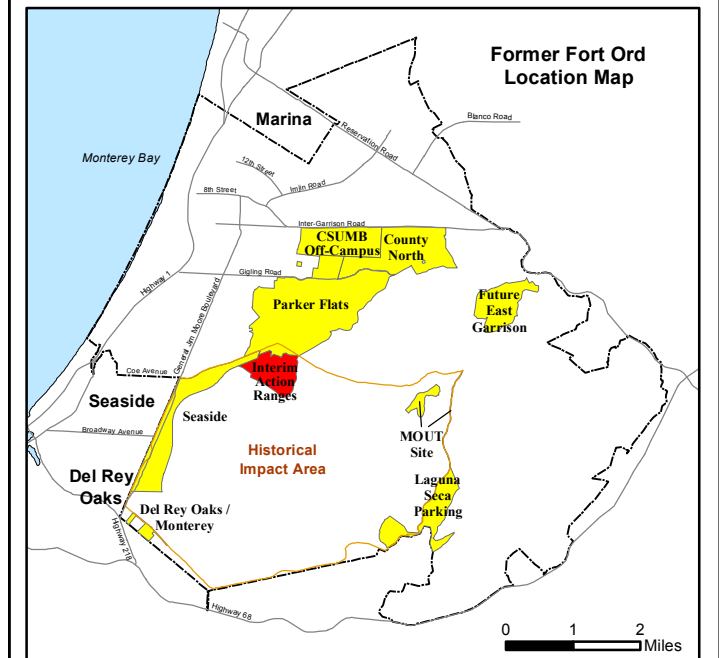
Figure 2-4



Legend

- 10-ft wide Transect, not excavated
- - - 10-ft wide Transect, excavated and soil sifted
- - - Design Study Expansion Polygon
- Range 44 SCA - 18.9 ac.
- Range 47 SCA - 15.2 ac.
- Central Area NCAs - 9.2 ac.
- Development Parcel Boundary
- ▲ HA-44 Remediation Area - 1.8 ac.
- - - Interim Action Ranges MRA Boundary
- Munitions Response Site
- Major Road
- - - Borderland Interface
- - - 100-Foot Buffer from Borderland Interface

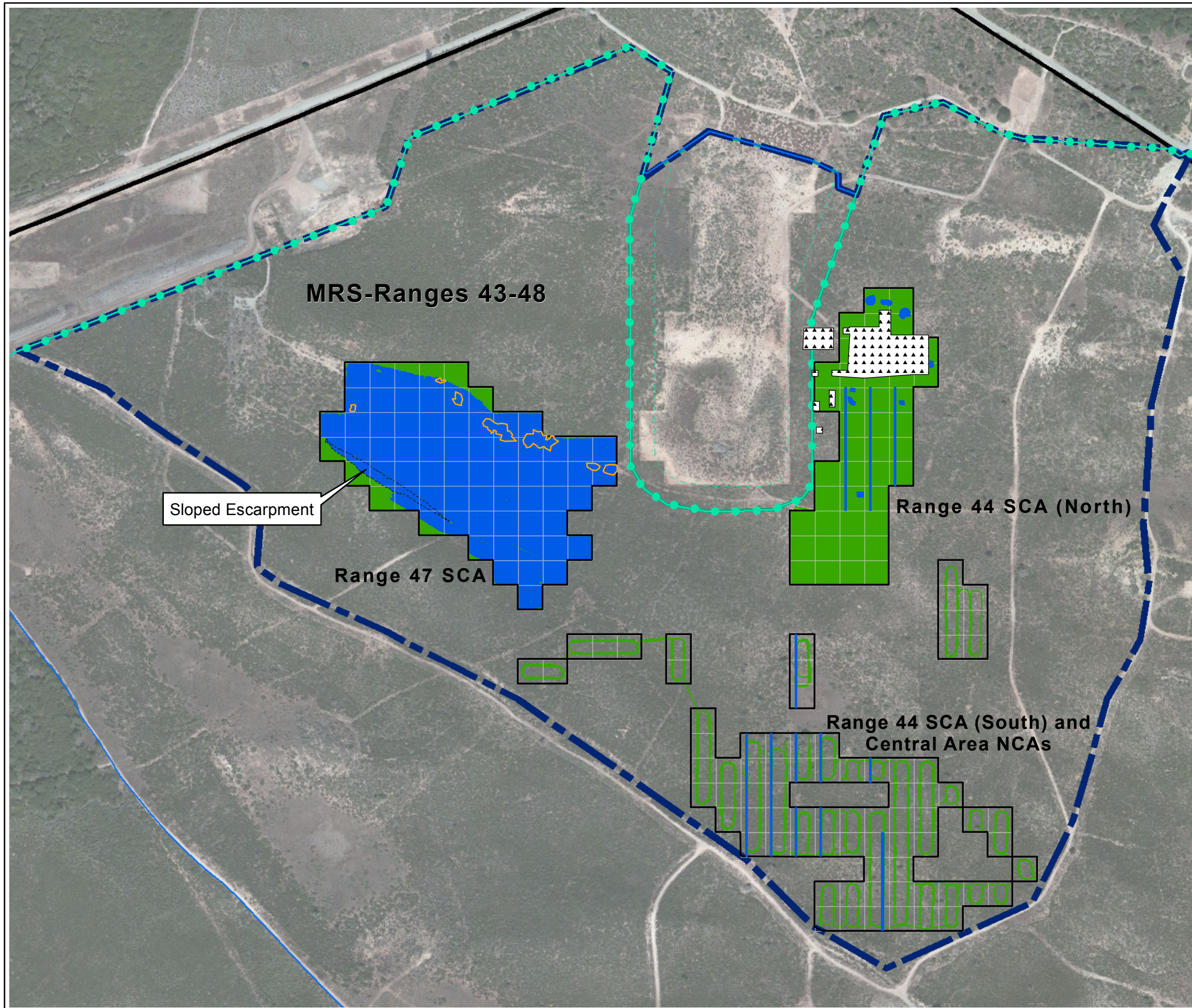
Note: Transect locations are approximate.



Interim Action Ranges MRA Phase II Design Study Transects

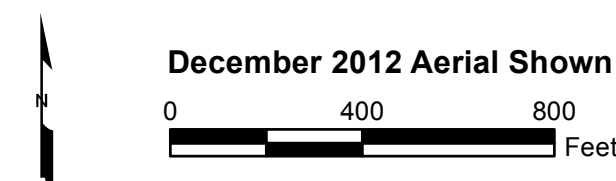
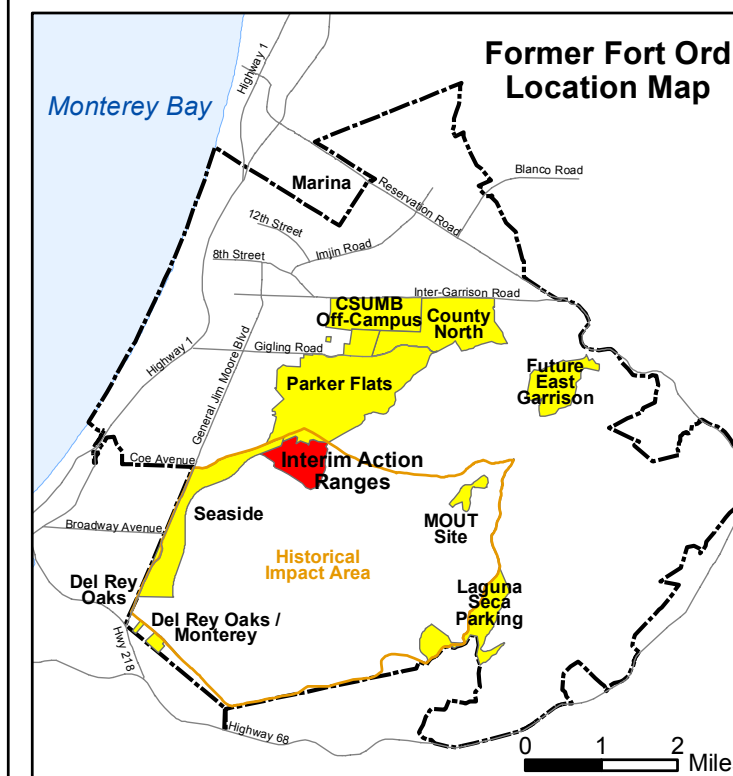
FORA ESCA RP
Monterey County, California

Figure 3-1



Legend

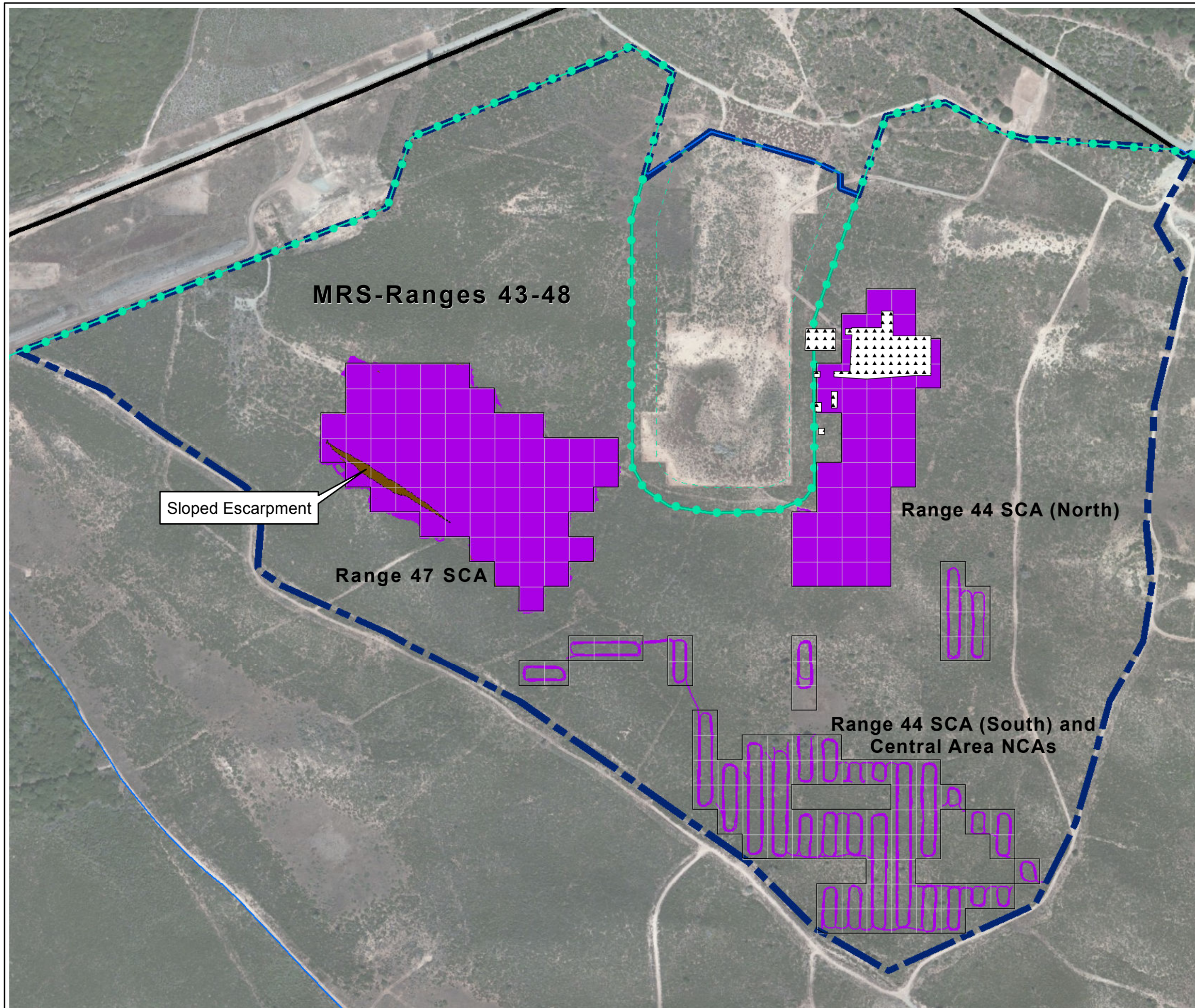
- SCA / NCA Areas
- Brush Cut Areas
- Vegetation Removal and Soil Scrape Areas
- Range 47 SCA Interim Remediation Action Verification Polygons
- Borderland Interface
- 100-foot Buffer from Borderland Interface
- Development Parcel Boundary
- Army HA-44 Remediation Area
- Interim Action Ranges MRA Boundary
- Munitions Response Site
- Major Roads



Interim Action Ranges MRA Phase II
 Brush Cut Areas, Vegetation
 Removal Areas, and Soil Scrape
 Areas for Sifting Operations
 FORA ESCA RP
 Monterey County, California

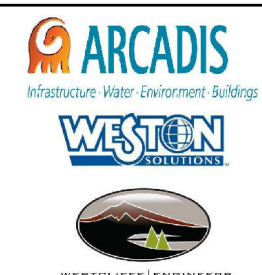
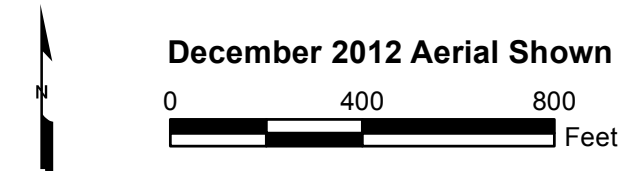
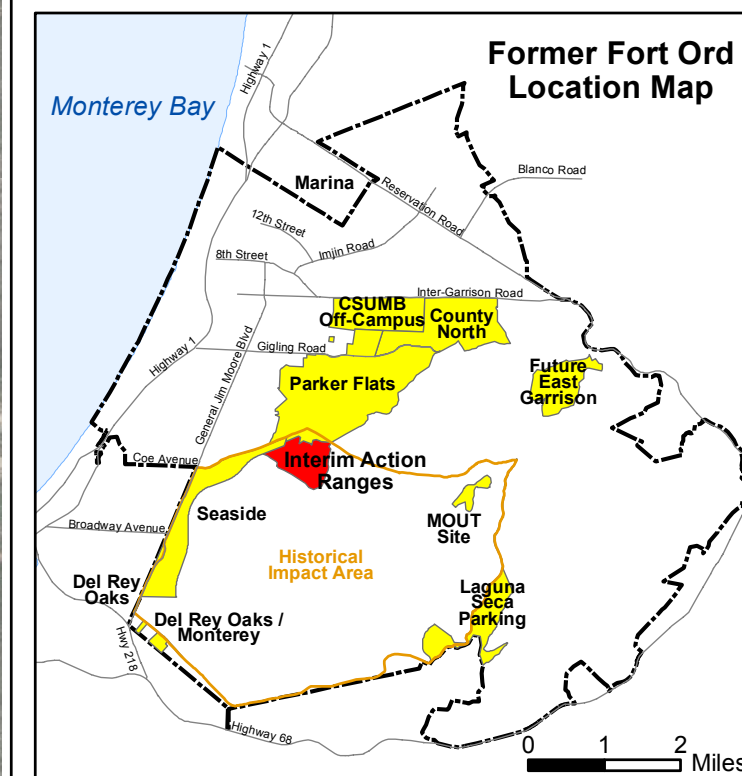
DRAFT

Figure 3-2



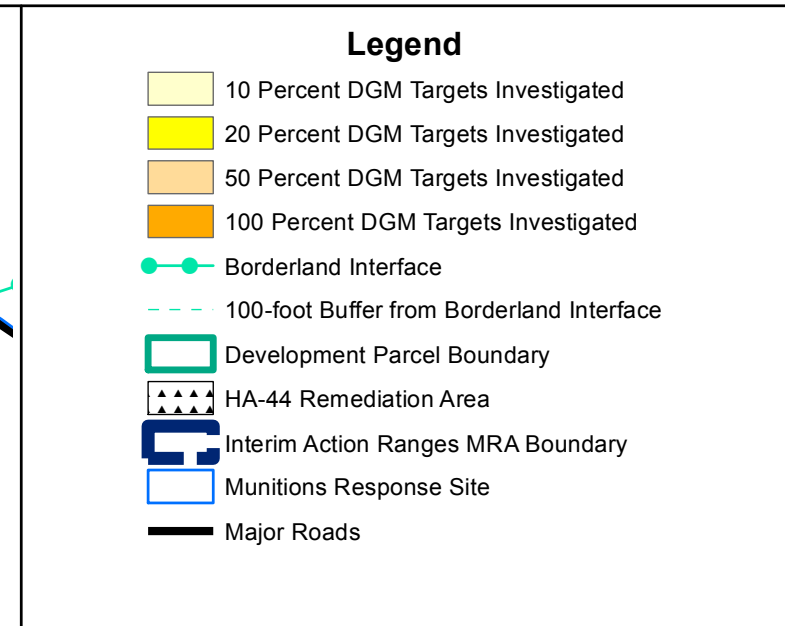
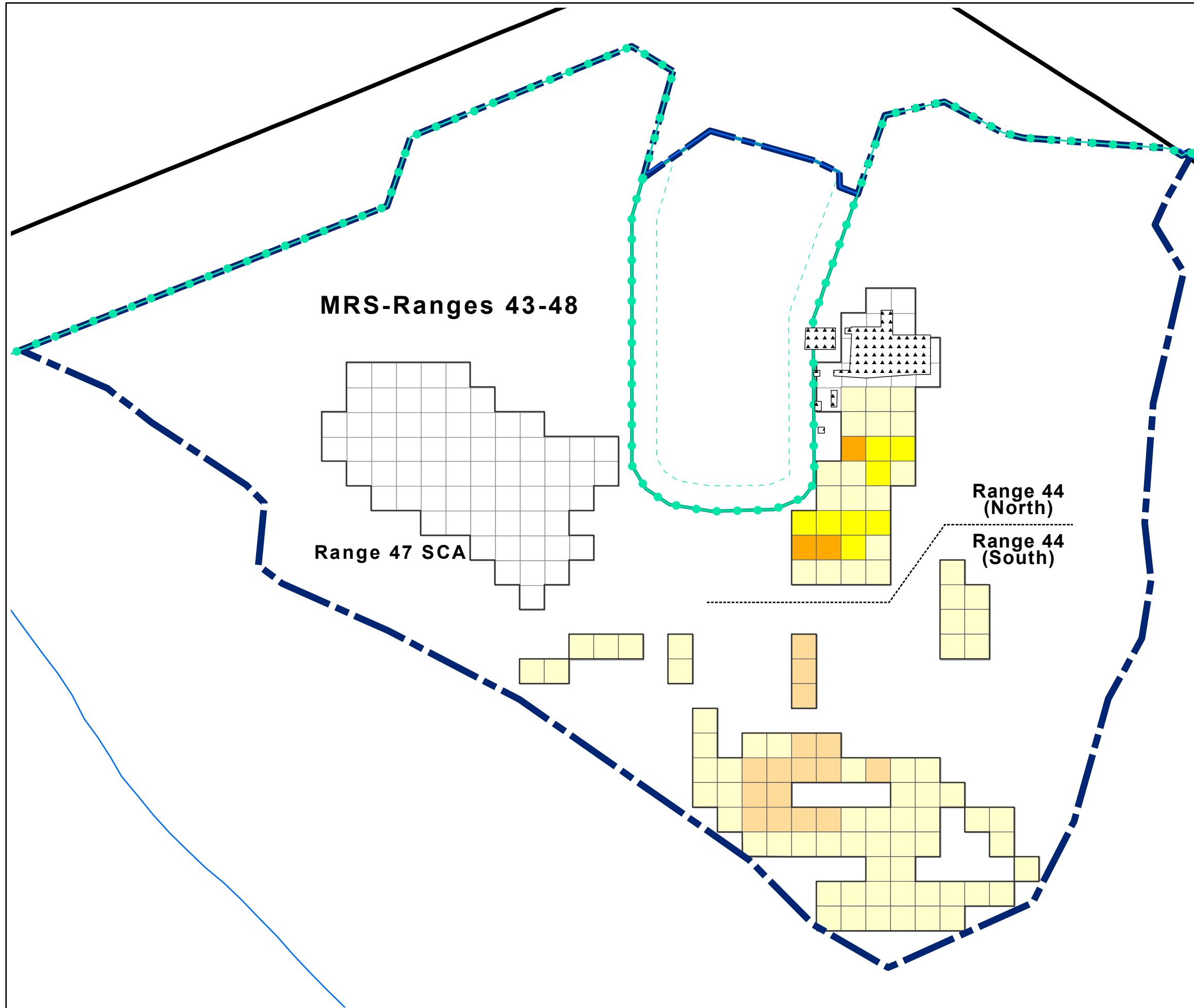
Legend

- SCA / NCA Areas
- DGM Survey
- Analog Survey
- Borderland Interface
- 100-foot Buffer from Borderland Interface
- Development Parcel Boundary
- HA-44 Remediation Area
- Interim Action Ranges MRA Boundary
- Munitions Response Site
- Major Roads

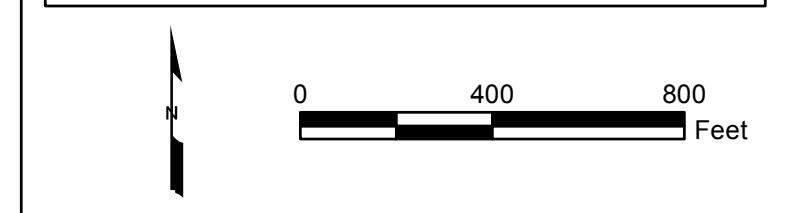
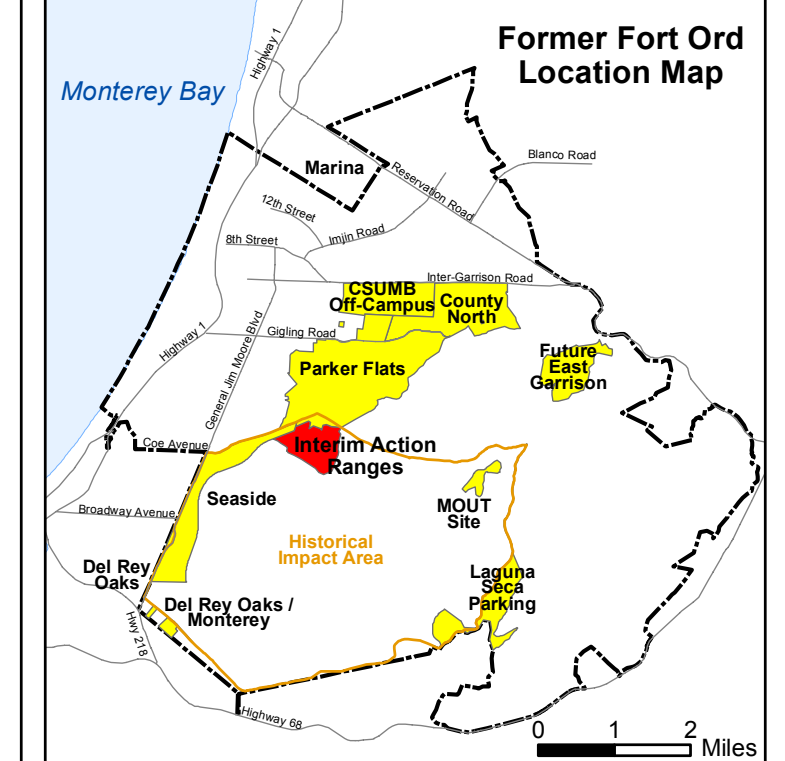



**Interim Action Ranges MRA
Phase II Analog and
DGM Areas**
FORA ESCA RP
Monterey County, California

Figure 3-3





Note: Range 44 SCA (North) Design Study Expansion target investigation is not represented in this figure.





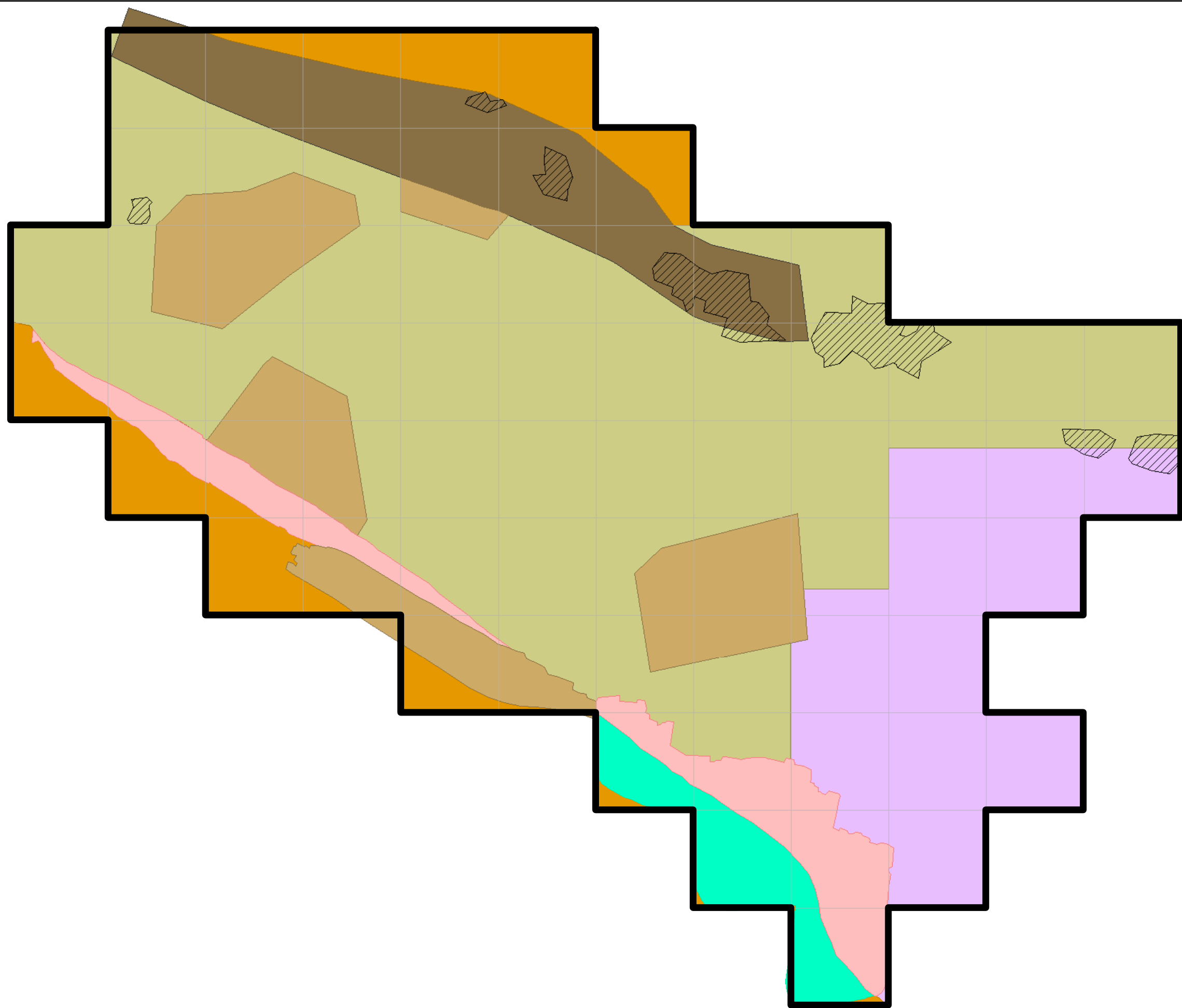
Infrastructure · Water · Environment · Buildings











**Interim Action Ranges MRA
Phase II Range 44 SCA Design
Study Percent Target Investigation**

FORA ESCA RP
Monterey County, California

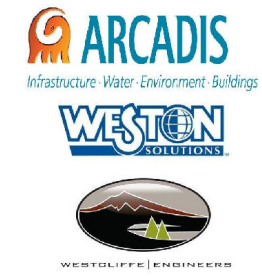
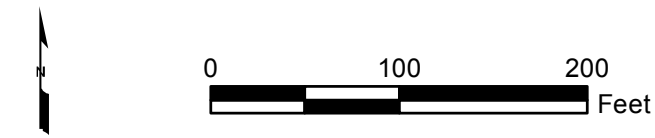
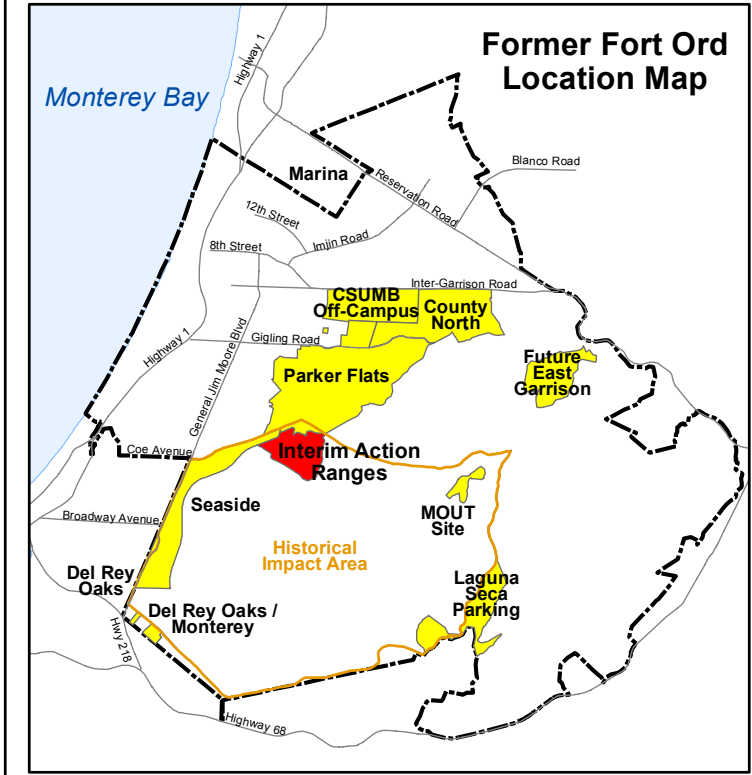
Figure 3-4



Legend

-  Range 77 SCA
-  Brush Cutting
-  Berm Removal and Excavation up to 12 inches
-  Excavation up to 6 inches
-  Excavation up to 12 inches
-  Excavation up to 18 inches
-  Excavation up to 36 inches
-  Excavation up to 48 inches
-  Additional Excavation up to 12 inches
-  Former Fort Ord 100-ft by 100-ft Grids in Phase II

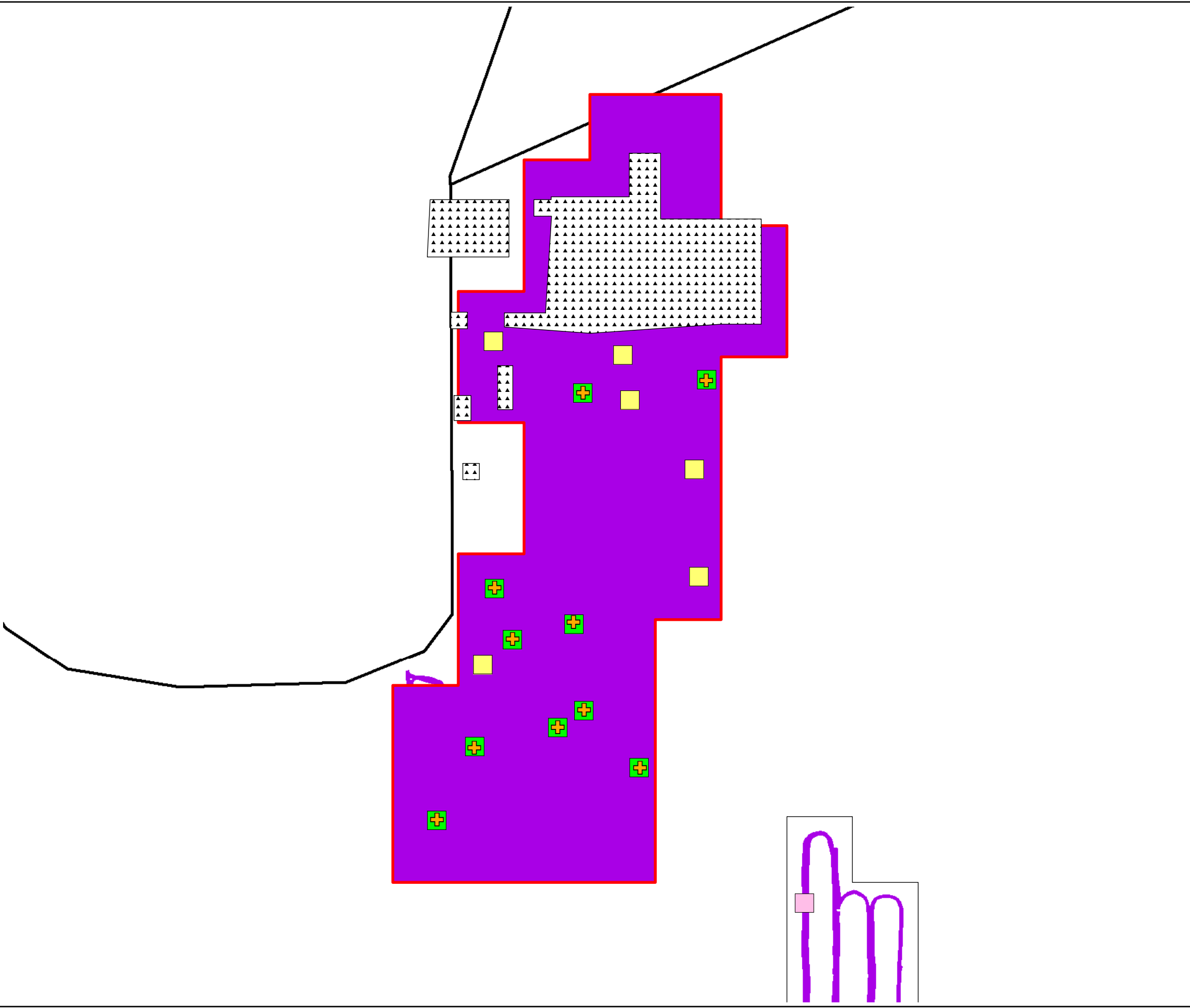
Note: Excavation depths and excavation boundaries are approximate.












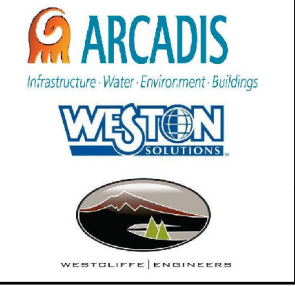
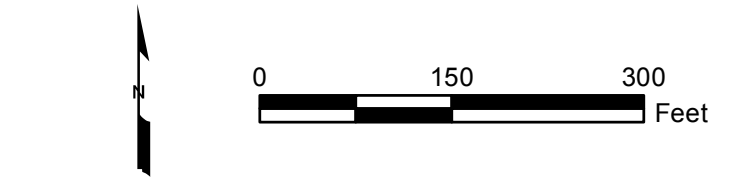
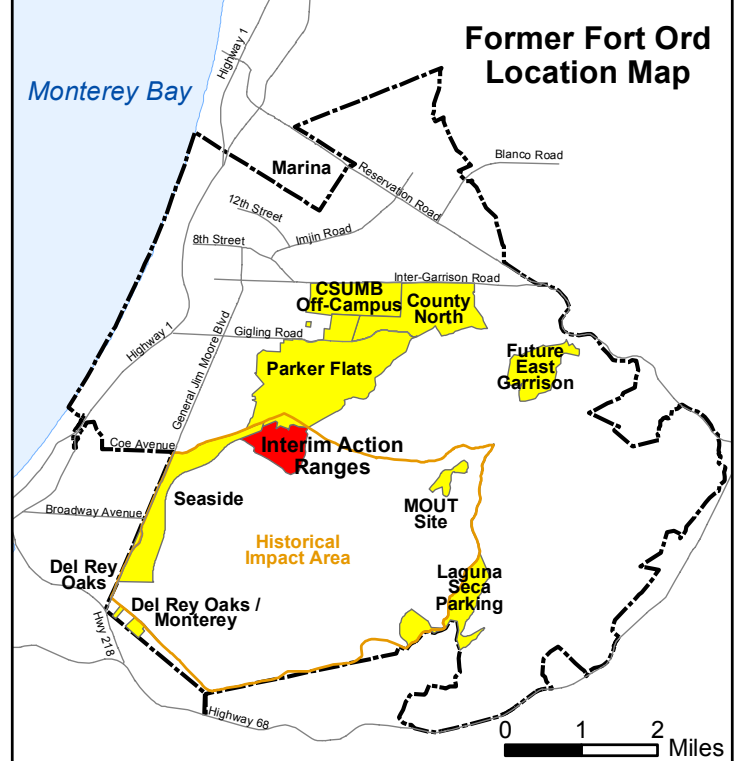
**Interim Action Ranges MRA Phase II
Range 77 SCA Excavation Depths**

FORA ESCA RP
Monterey County, California

Figure 3-5



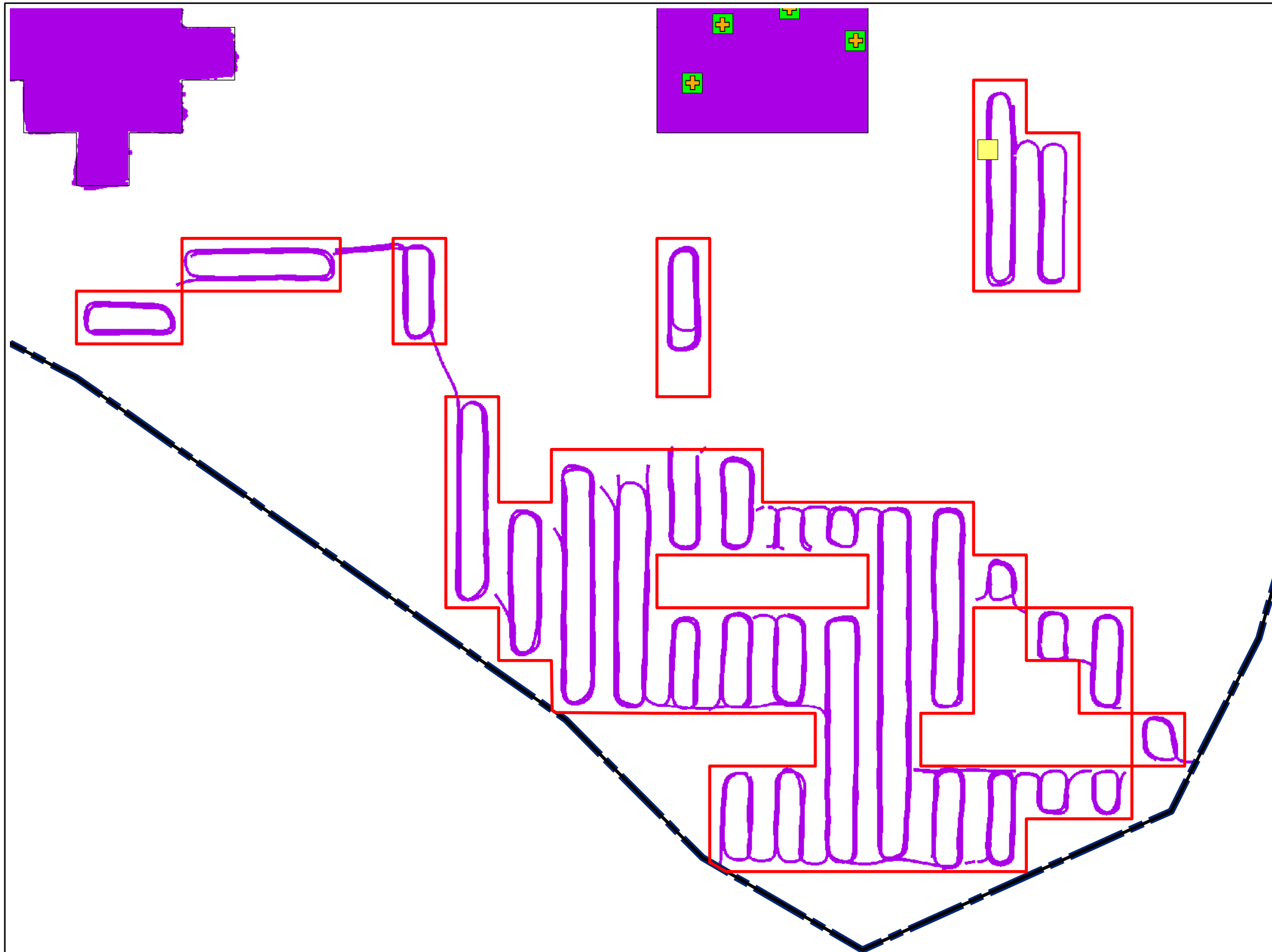
- ### Legend
-  Munitions Response Area
 -  Range 44 SCA (North)
 -  Range 44 SCA (South) and Central Area NCAs
 -  Phase II DGM Survey Area
 -  Army HA-44 Remediation Area
 -  Blind QC Seed Found Location
 -  Blind QC Seed Buried Location
 -  Blind seed not selected for investigation because response was below target selection threshold
 -  Blind seed not selected for investigation because seed was outside the transect DGM area; seed was retrieved by the Unexploded Ordnance Quality Control Specialist










**Interim Action Ranges MRA Phase II
Range 44 SCA (North)
Design Study DGM Seeds**

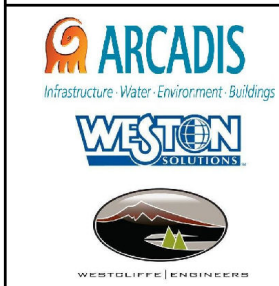
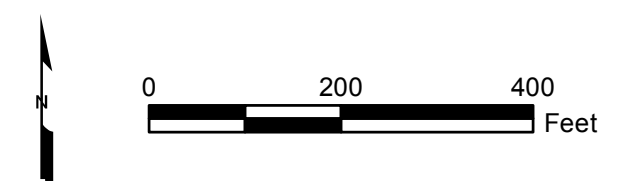
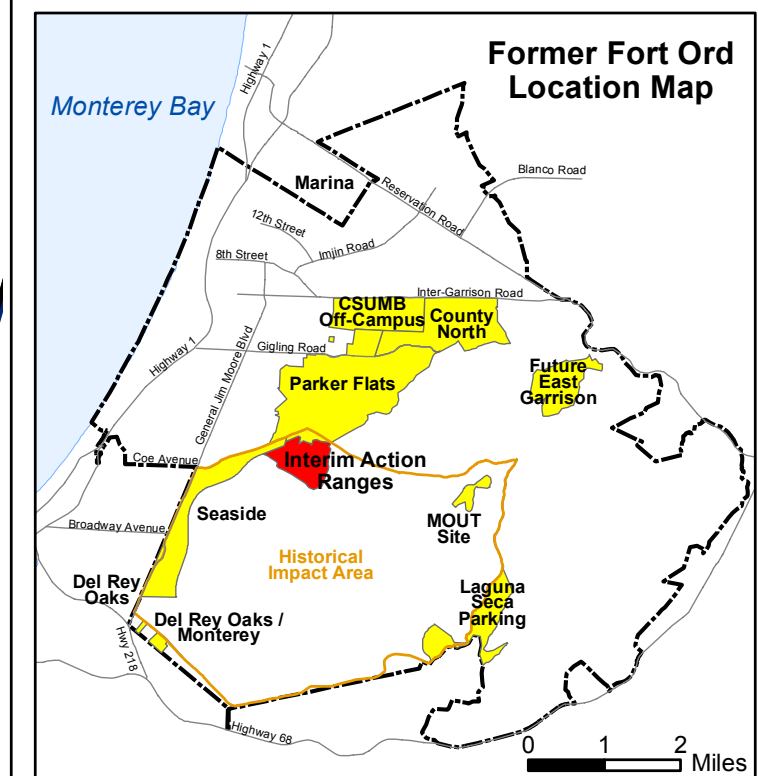
FORA ESCA RP
Monterey County, California

Figure 4-1



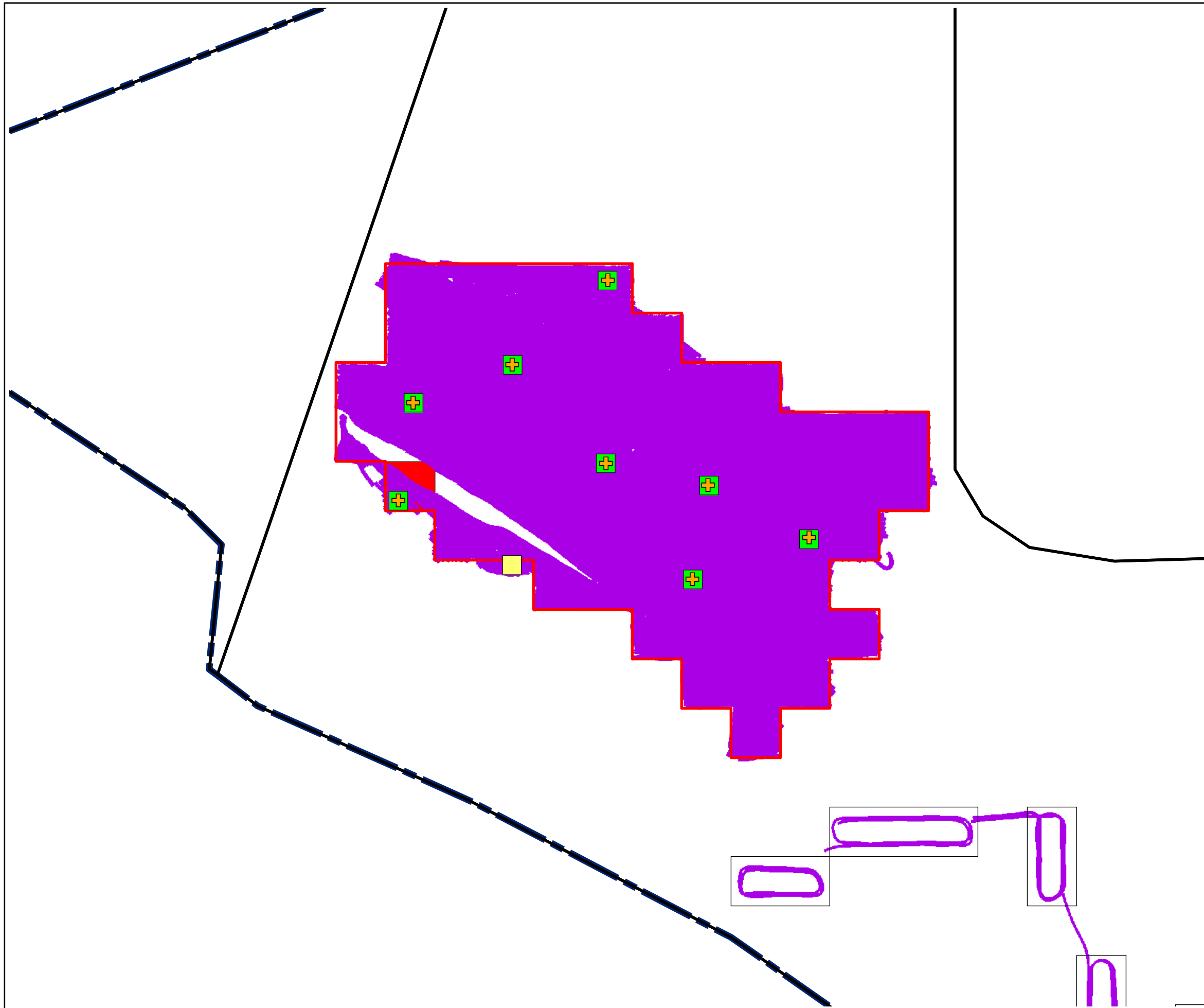
Legend










-  Munitions Response Area
-  Range 44 SCA (South) and Central Area NCAs
-  Range 47 SCA and Range 44 SCA (North)
-  Phase II DGM Survey Area
-  Blind QC Seed Found Location
-  Blind QC Seed Buried Location
-  Blind seed not selected for investigation because seed was buried outside the transect DGM survey area; seed was retrieved by the Unexploded Ordnance Quality Control Specialist

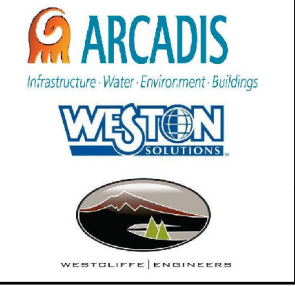
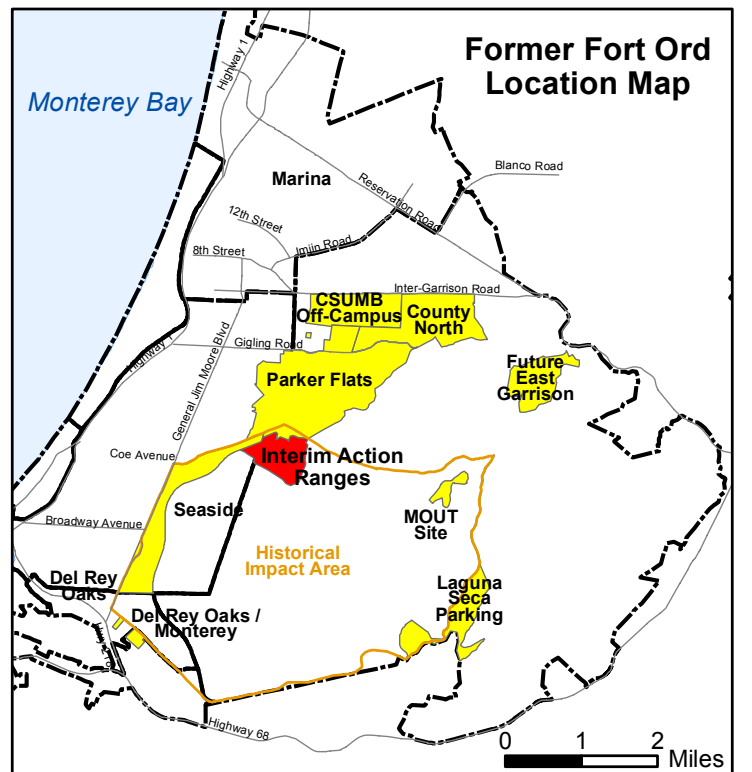


Interim Action Ranges MRA Phase II
 Range 44 SCA (South) and
 Central Area NCAs
 Design Study DGM Seeds
 FORA ESCA RP
 Monterey County, California

Figure 4-2



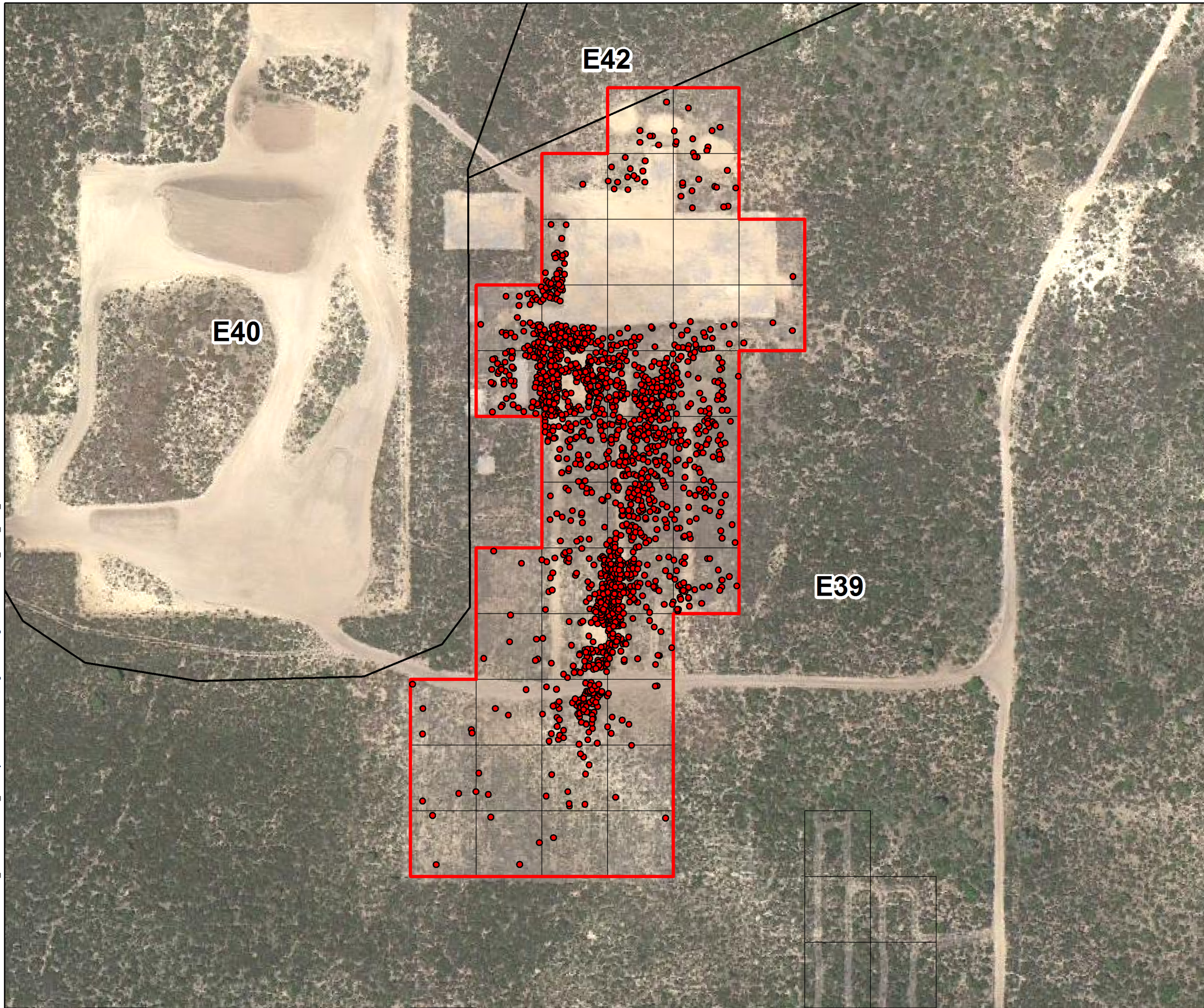
- ### Legend
-  Munitions Response Area
 -  USACE Parcels
 -  Range 47 SCA
 -  Range 44 SCA (South) and Central Area NCAs
 -  Phase II DGM Survey Area
 -  1 Analog QC Seed Buried/Found in Grid
 -  DGM QC Seed Found Location
 -  DGM QC Seed Buried Location
 -  Blind seed not selected for investigation because seed was buried outside the DGM survey area; seed was retrieved by the Unexploded Ordnance Quality Control Specialist



**Interim Action Ranges MRA Phase II
Range 47 SCA Interim Remedial
Action DGM and Analog Seeds**

FORA ESCA RP
Monterey County, California

Figure 4-3



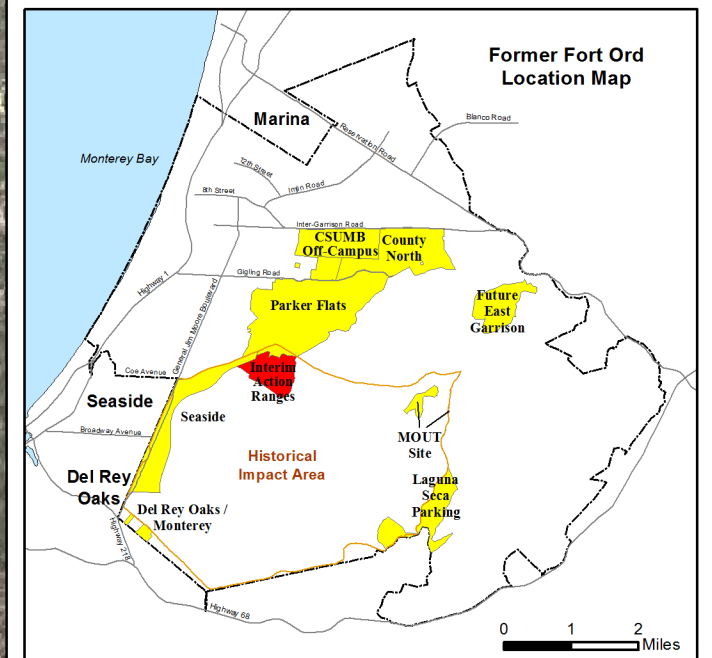
Legend

- Phase II MEC Find*
- Range 44 SCA (North)
- E39 USACE Parcel
- ▲▲▲ Army HA-44 Remediation Area
- Former Fort Ord 100-Ft by 100 -Ft Grids in Phase II

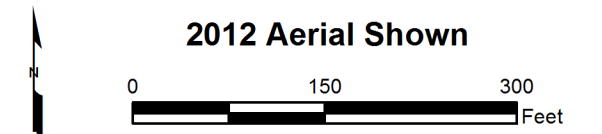
Summary of Sift Finds

496 - UXO

*Note: MEC Items displayed may contain multiple items. Sift finds are not depicted.



2012 Aerial Shown



**Interim Action Ranges MRA
Phase II - Range 44 SCA
(North) MEC Recovered**

FORA ESCA RP
Monterey County, California

Figure 5-1



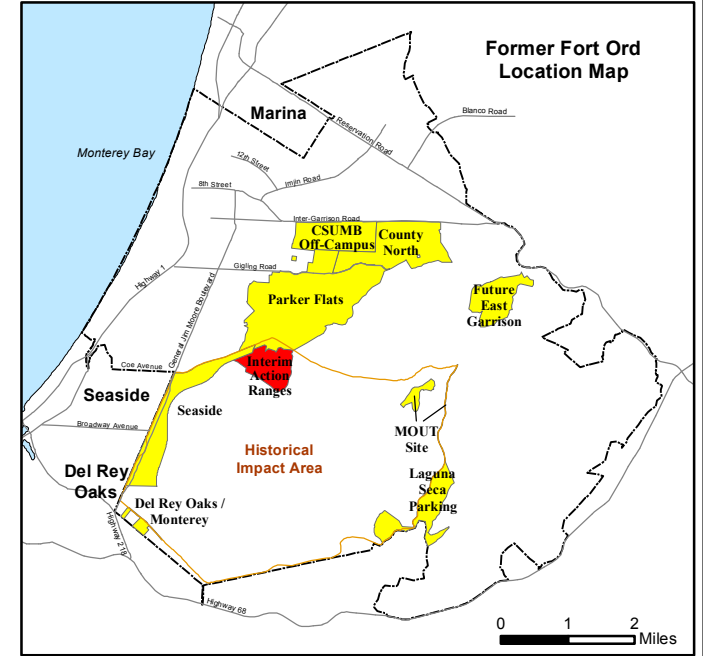
Legend

- Phase II MD Find*
- Range 44 SCA (North)
- E39 USACE Parcel
- ▲▲▲ Army HA-44 Remediation Area
- Former Fort Ord 100-Ft by 100 -Ft Grids in Phase II

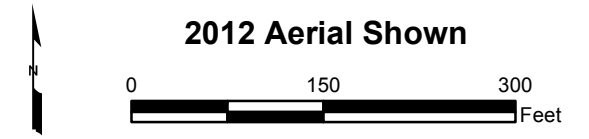
Summary of Sift Finds

Weight = 1,434.50 lbs.

*Note: MD Items displayed may contain multiple items found anywhere within the grid cell in which the item is displayed. Sift finds are not depicted.



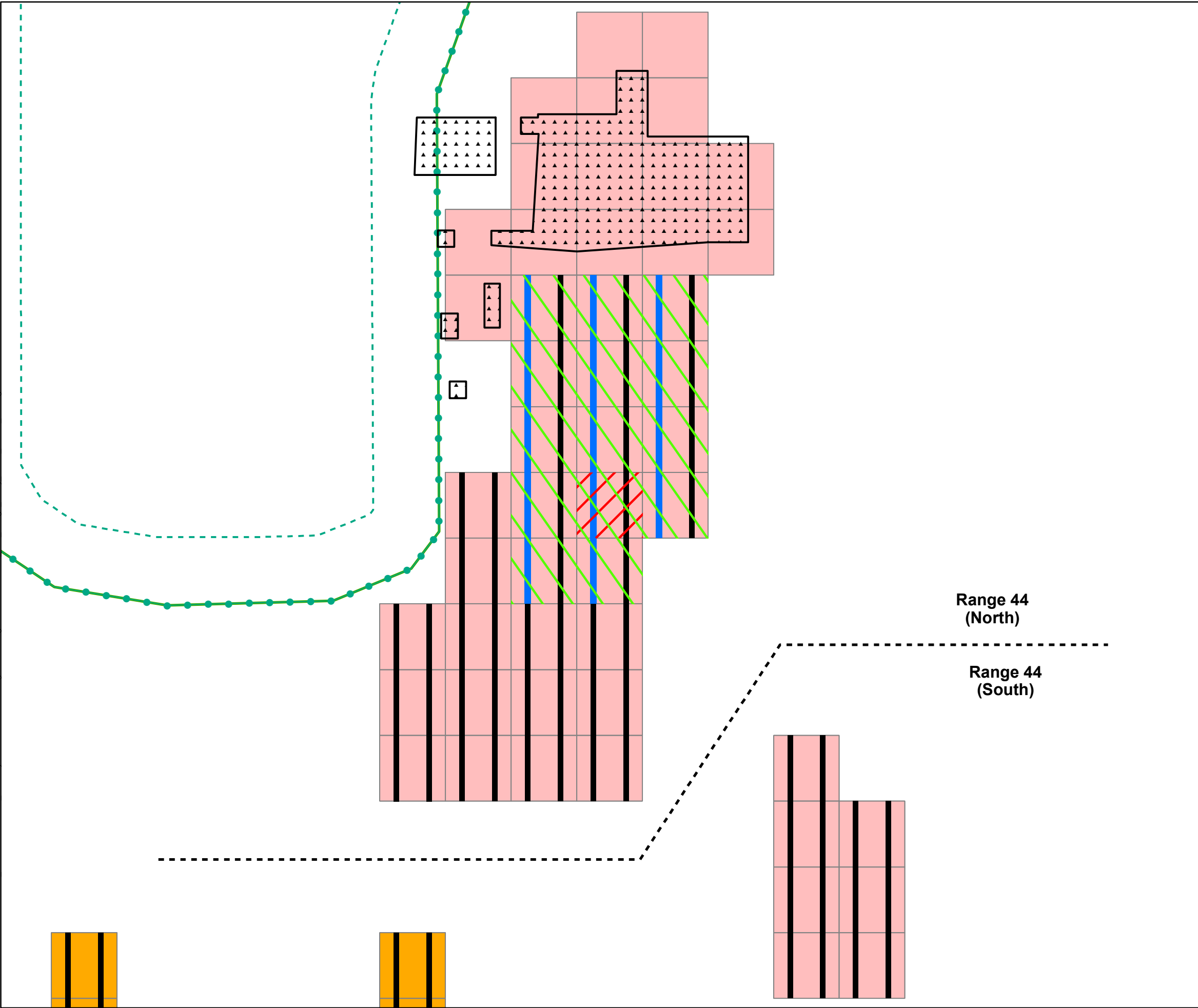
2012 Aerial Shown













**Interim Action Ranges MRA
Phase II - Range 44 SCA
(North) MD Recovered**

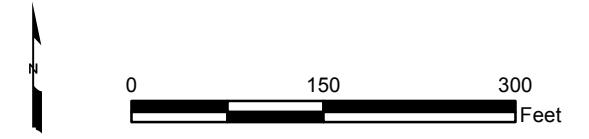
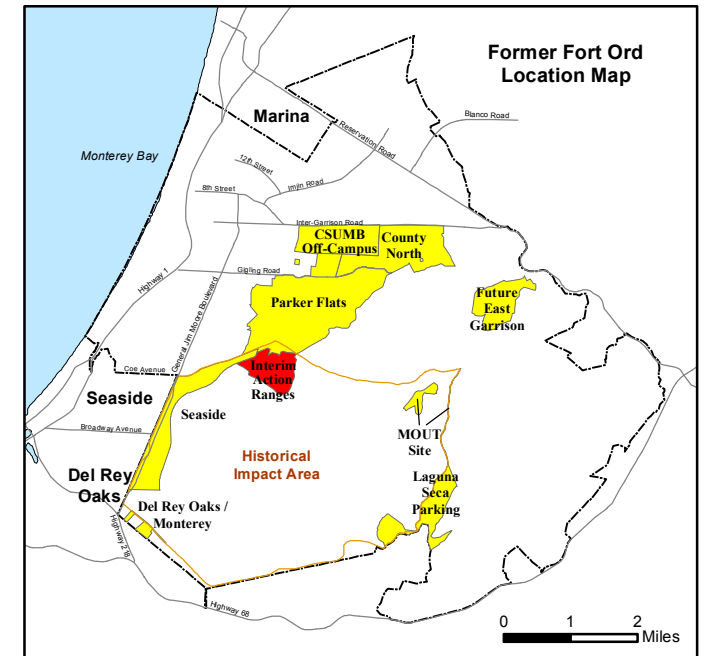
FORA ESCA RP
Monterey County, California

Figure 5-2



Legend

-  Range 44 SCA
-  Central Area NCAs
-  Grid with 66mm High Explosive Anti-Tank Rocket (M72) - MEC
-  Grid with 66mm High Explosive Anti-Tank Rocket (M72) - MD
-  Transect Segments Excavated and Screened to a Depth of 6 Inches.
-  DGM Transects (10-ft wide)
-  Army HA-44 Remediation Area
-  100-Foot Buffer from Borderland Interface
-  Borderland Interface
-  Development Parcel Boundary



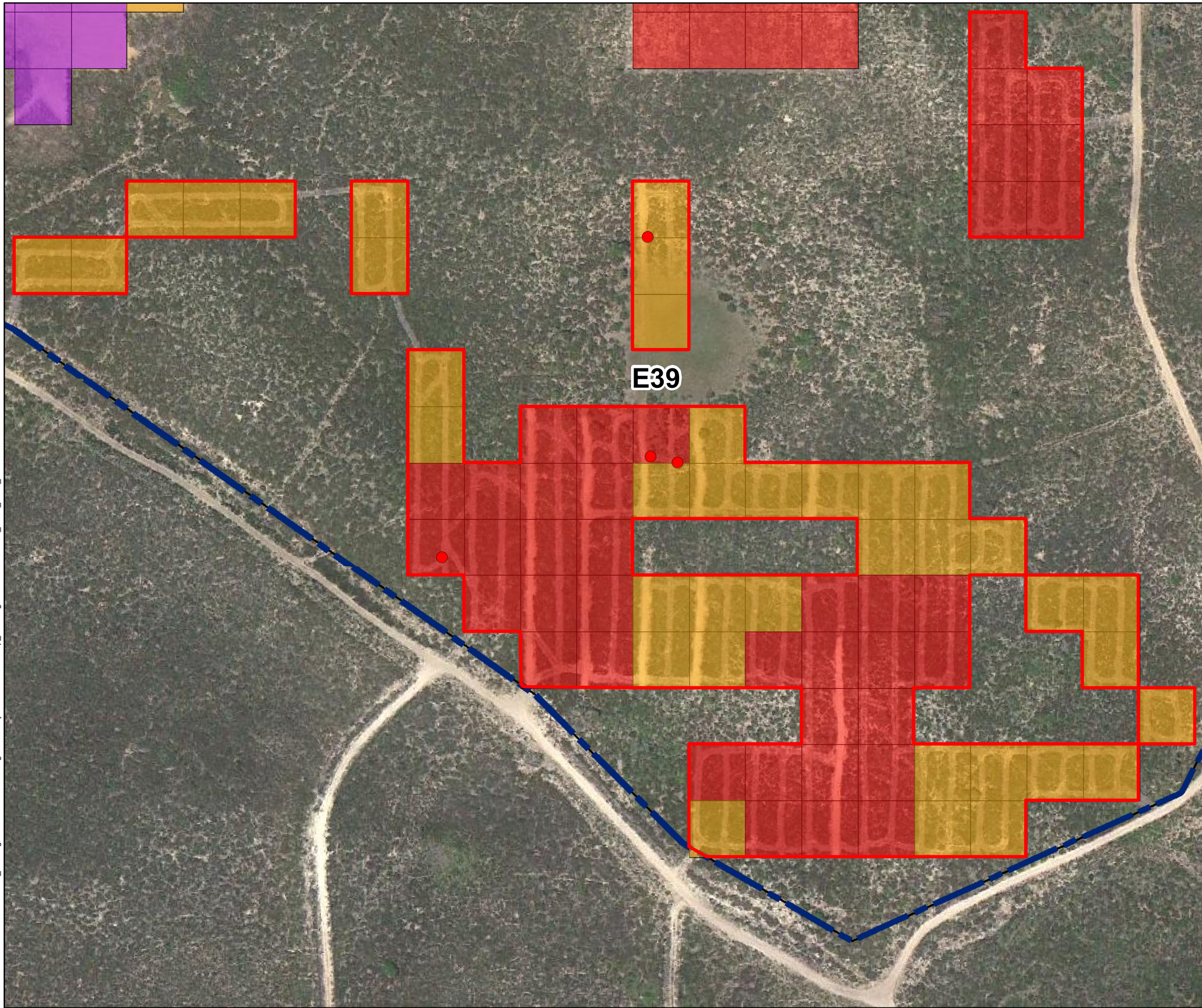
Range 44 (North)

Range 44 (South)



**Interim Action Ranges MRA
Phase II – Range 44 SCA (North)
Design Study 66mm
Rocket Findings**
FORA ESCA RP
Monterey County, California

Figure 5-3



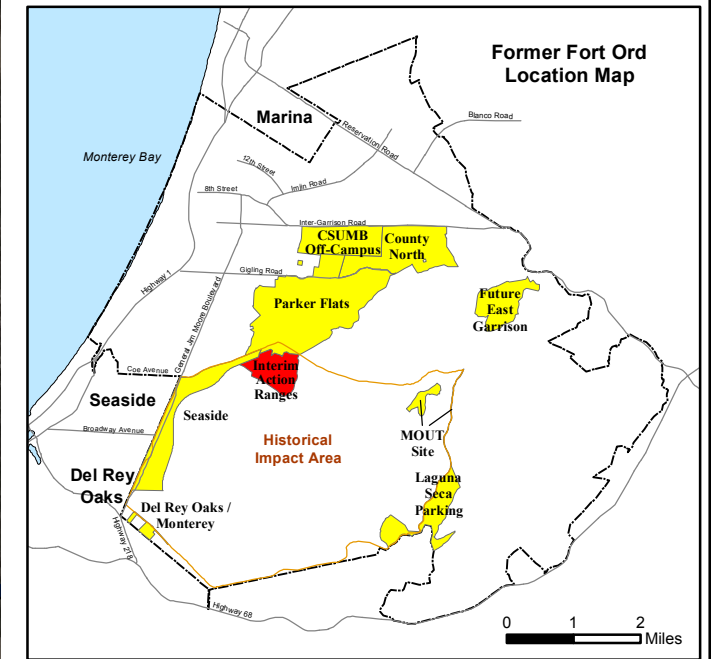
Legend

- Phase II MEC Find*
- Range 44 SCA (South) and Central Area NCAs
- E39 USACE Parcel
- MRA Boundary
- Former Fort Ord 100-Ft by 100 -Ft Grids in Phase II
- Range 44 SCA - 18.9 ac.
- Range 47 SCA - 15.2 ac.
- Central Area NCAs - 9.2 ac.

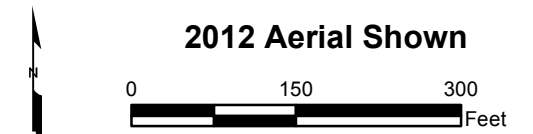
Summary of Sift Finds

23 - UXO

*Note: MEC Items displayed may contain multiple items. Sift finds are not depicted.



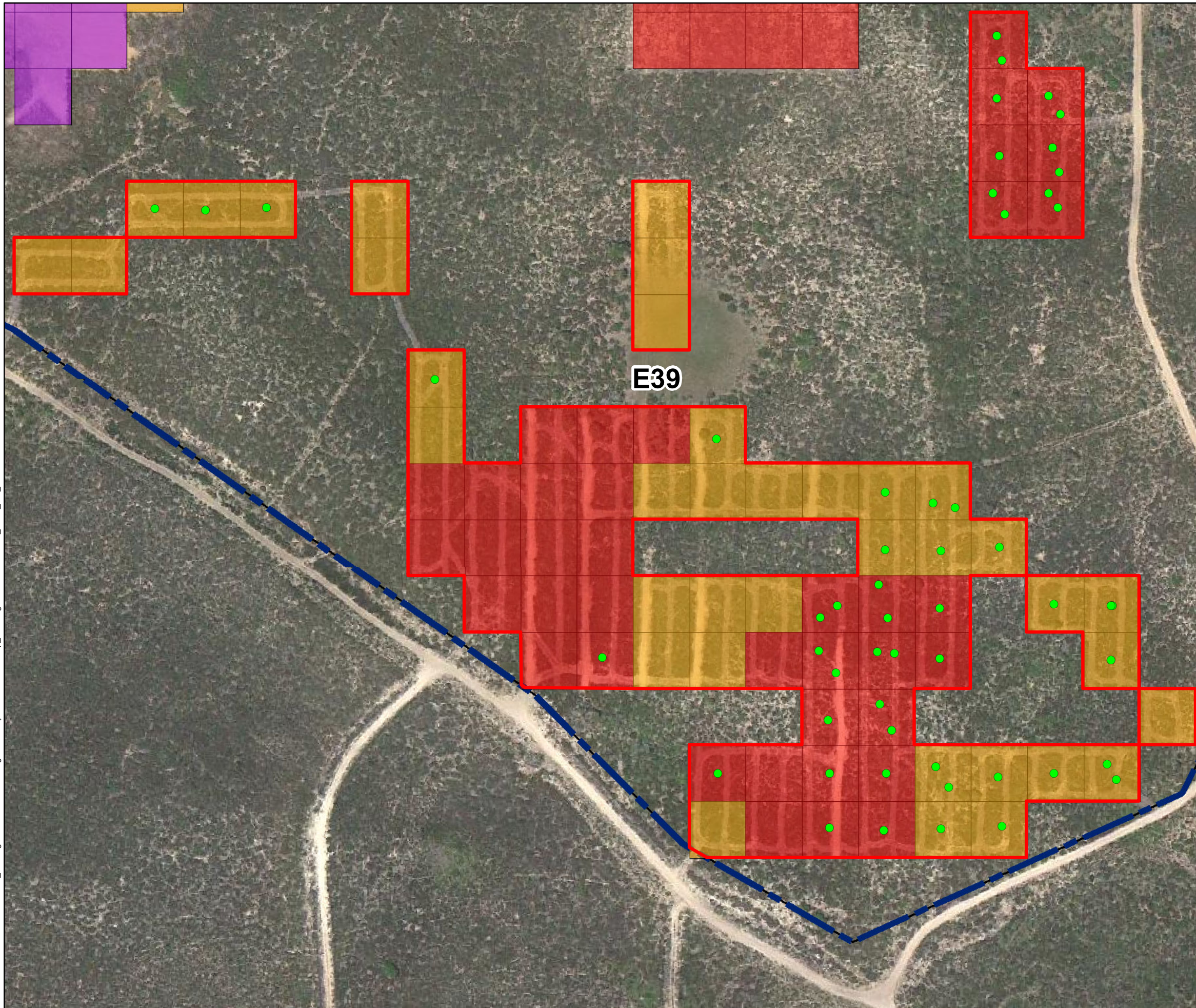
2012 Aerial Shown



**Interim Action Ranges MRA
Phase II Range 44 SCA (South)
and Central Area NCAs MEC
Recovered**

FORA ESCA RP
Monterey County, California

Figure 5-4



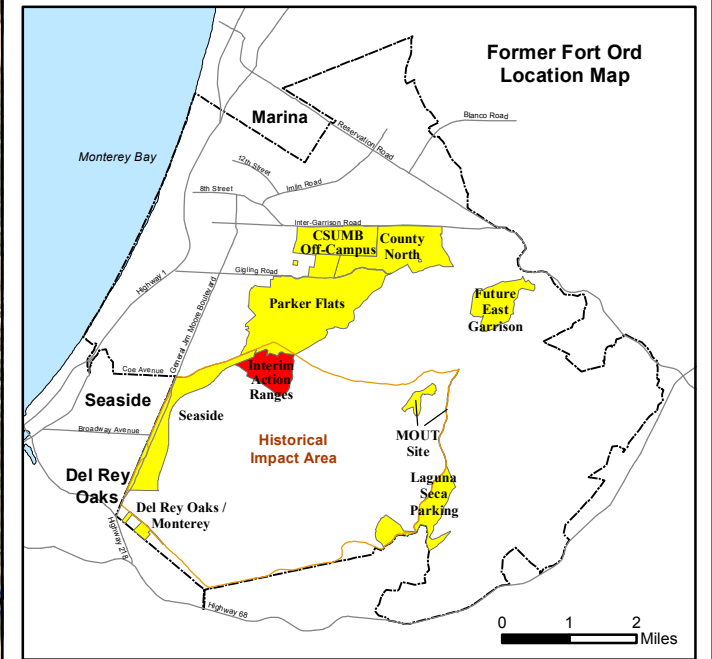
Legend

- Phase II MD Find*
- Range 44 SCA (South) and Central Area NCAs
- E39 USACE Parcel
- MRA Boundary
- Former Fort Ord 100-Ft by 100 -Ft Grids in Phase II
- Range 44 SCA - 18.9 ac.
- Range 47 SCA - 15.2 ac.
- Central Area NCAs - 9.2 ac.

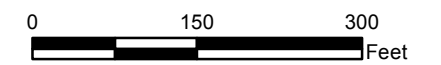
Summary of Sift Finds

Weight = 383.90 lbs.

*Note: MD Items displayed may contain multiple items found anywhere within the grid cell in which the item is displayed. Sift finds are not depicted.

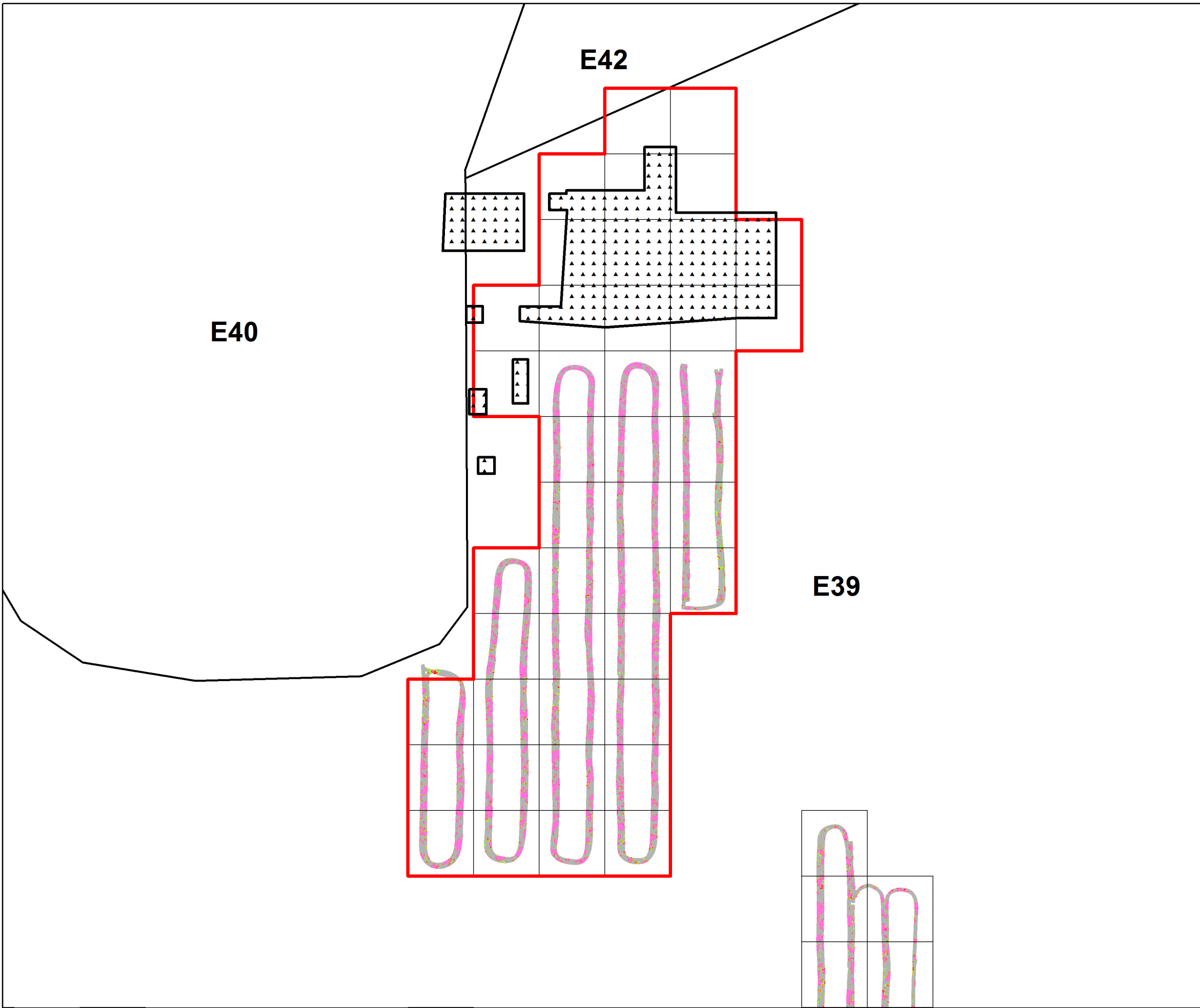


2012 Aerial Shown

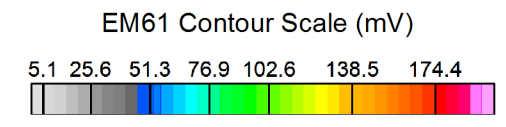






**Interim Action Ranges MRA
Phase II Range 44 SCA (South)
and Central Area NCAs
MD Recovered**
FORA ESCA RP
Monterey County, California

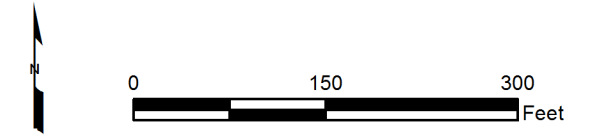
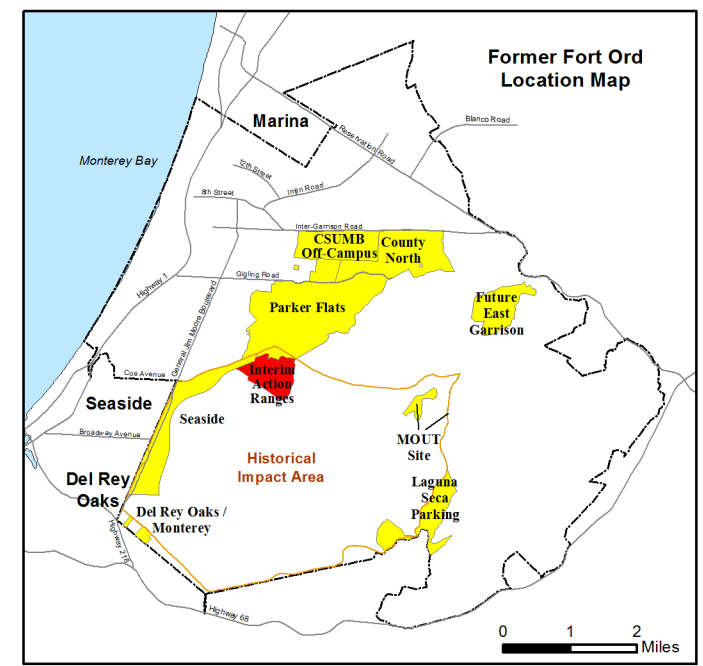
Figure 5-5



Legend



-  Range 44 SCA (North)
-  USACE Parcel
-  Army HA-44 Remediation Area
-  Former Fort Ord 100-Ft by 100 -Ft Grids in Phase II



**Interim Action Ranges MRA
Phase II - Range 44 SCA
(North) Design Study
Transect DGM**

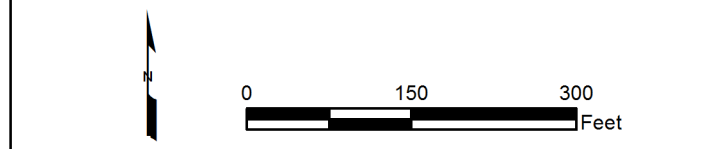
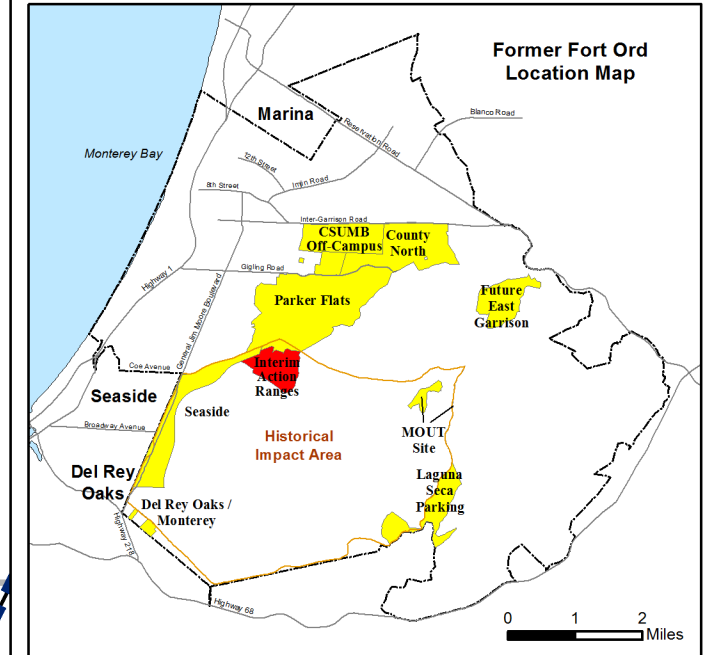
FORA ESCA RP
Monterey County, California




Figure 5-6



Legend

- EM61 Contour Scale (mV)
- | | | | | | | |
|-----|------|------|------|-------|-------|-------|
| 5.1 | 25.6 | 51.3 | 76.9 | 102.6 | 138.5 | 174.4 |
|-----|------|------|------|-------|-------|-------|
- Range 44 SCA (South) and Central Area NCAs
 - E39 USACE Parcel
 - - - MRA Boundary
 - Former Fort Ord 100-Ft by 100-Ft Grids in Phase II
 - Range 44 SCA - 18.9 ac.
 - Range 47 SCA - 15.2 ac.
 - Central Area NCAs - 9.2 ac.

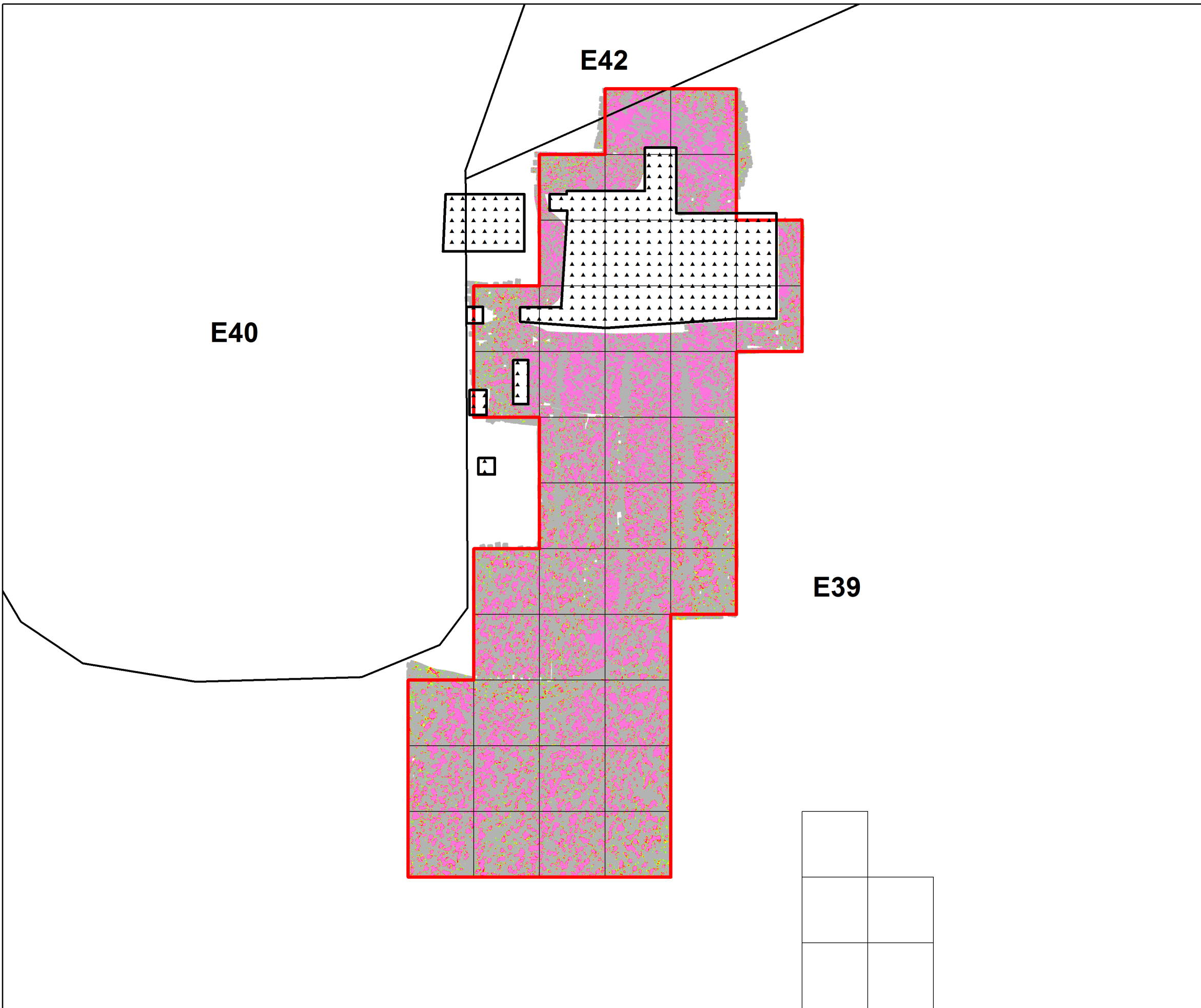


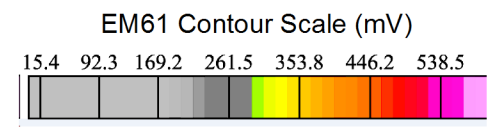
**Interim Action Ranges MRA
Phase II Range 44 SCA (South)
Design Study Transect DGM**





FORA ESCA RP
Monterey County, California

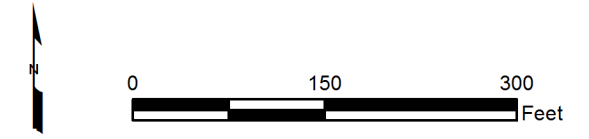
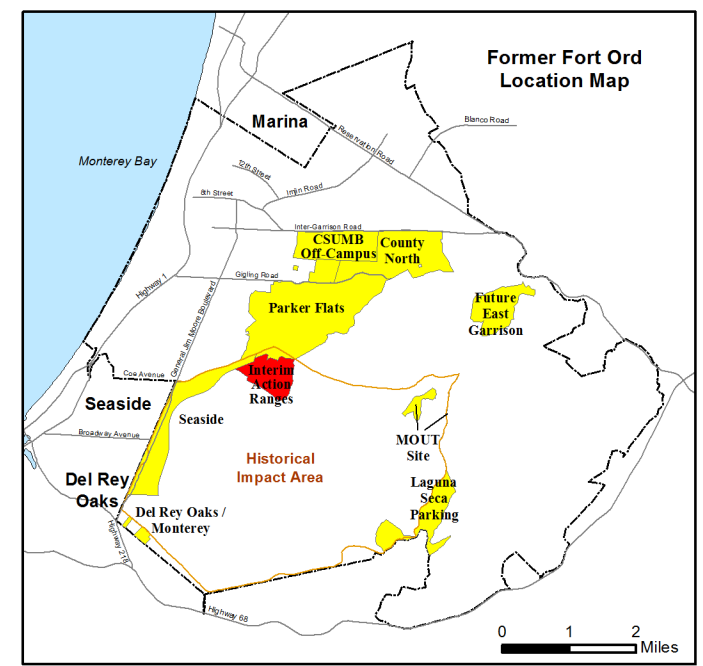
Figure 5-7



Legend

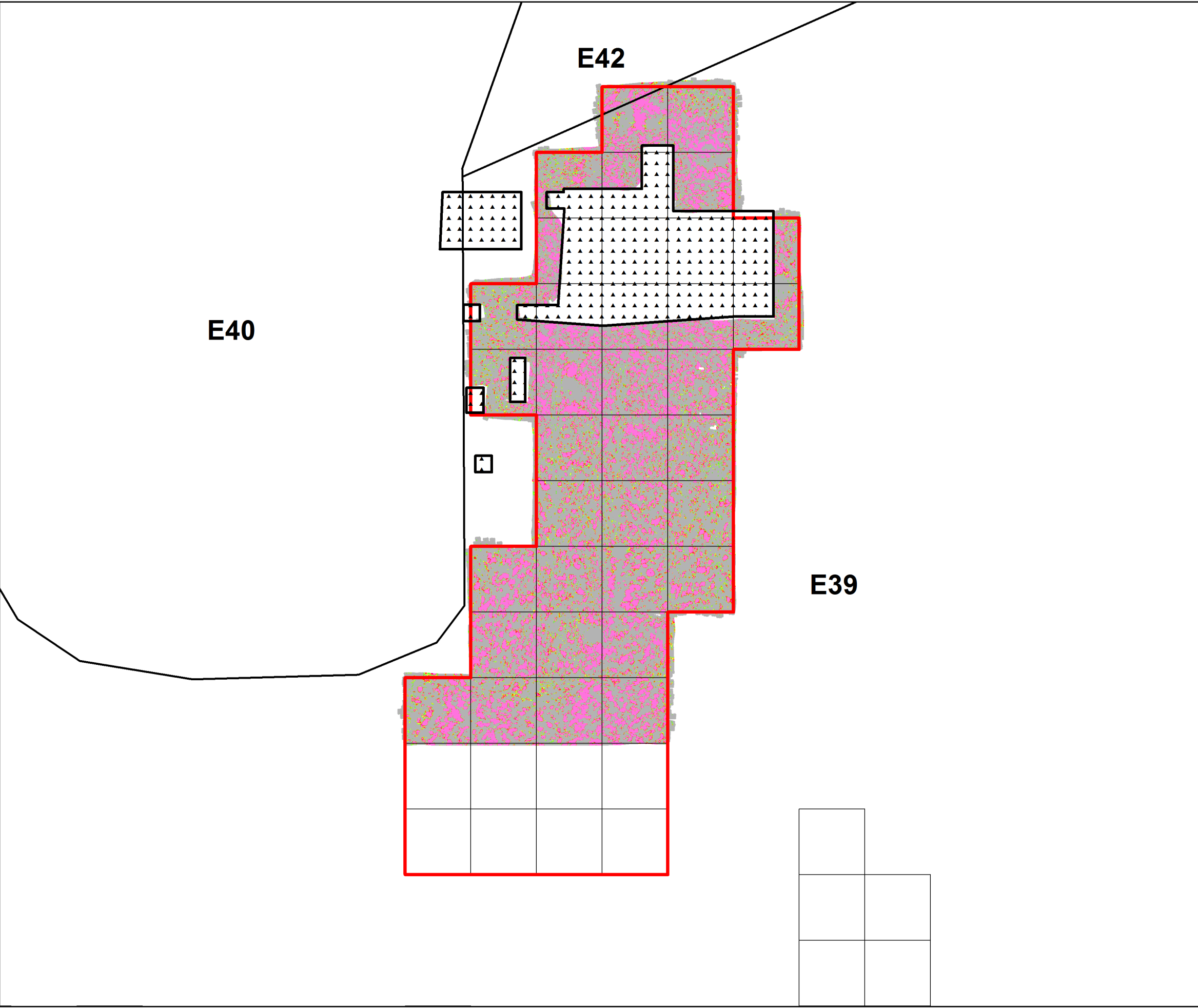


-  Range 44 SCA (North)
-  USACE Parcel
-  Army HA-44 Remediation Area
-  Former Fort Ord 100-Ft by 100 -Ft Grids in Phase II

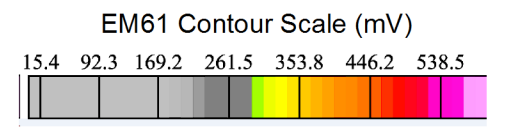






**Interim Action Ranges MRA
Phase II – Range 44 SCA (North)
Design Study Expansion 1st
DGM and Excavated Polygons**
FORA ESCA RP
Monterey County, California

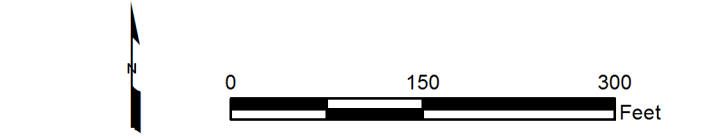
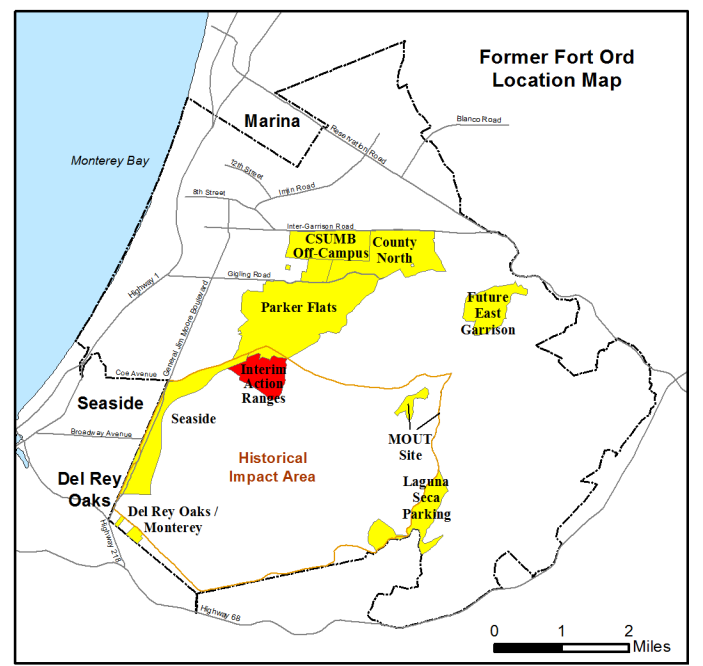
Figure 5-8



Legend



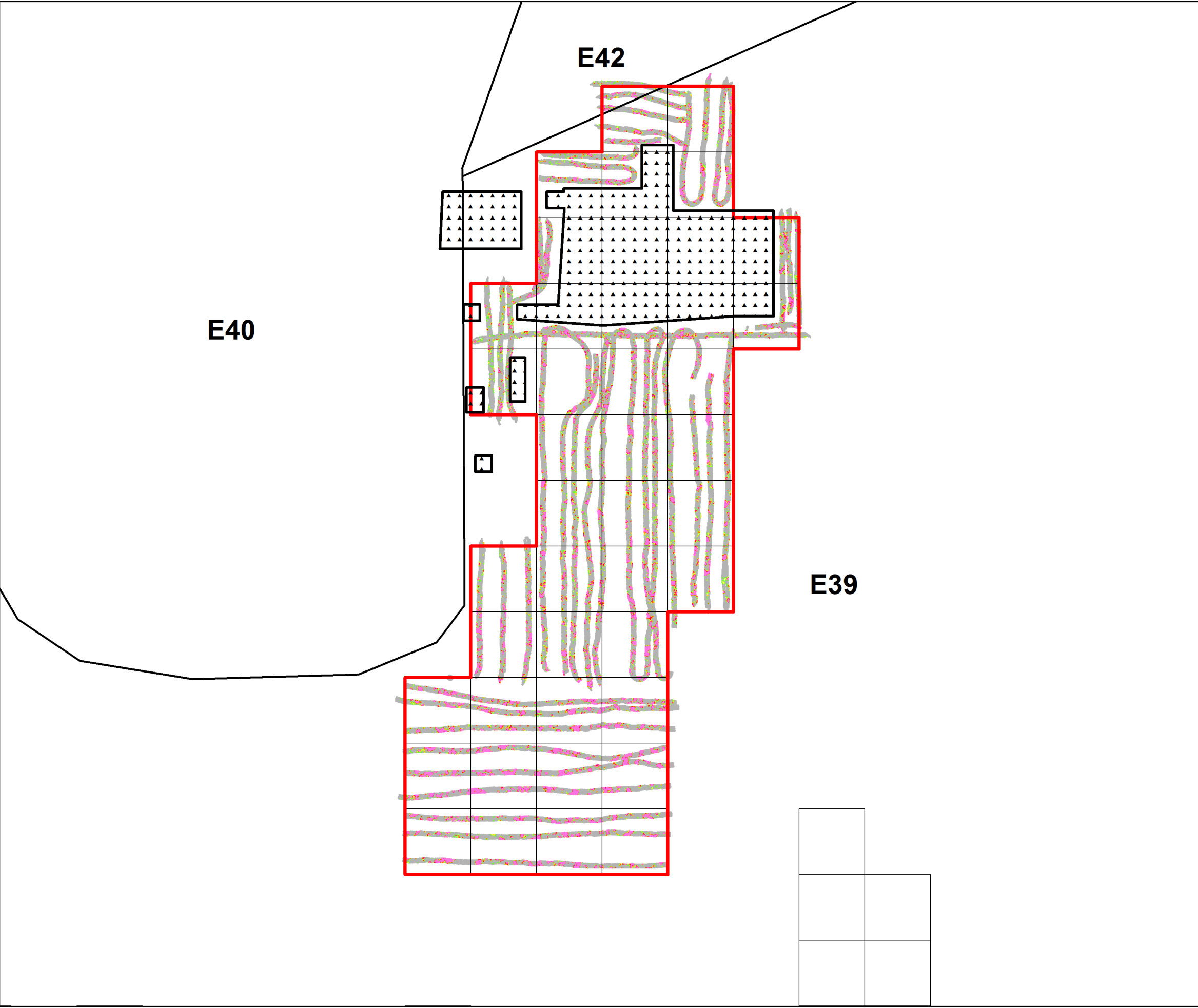
-  Range 44 SCA (North)
-  E39 USACE Parcel
-  Army HA-44 Remediation Area
-  Former Fort Ord 100-Ft by 100-Ft Grids in Phase II



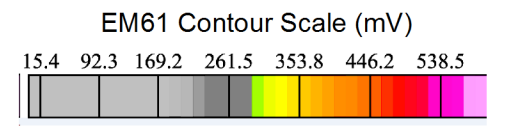
**Interim Action Ranges MRA
Phase II – Range 44 SCA
(North) Design Study Expansion
2nd DGM**

FORA ESCA RP
Monterey County, California

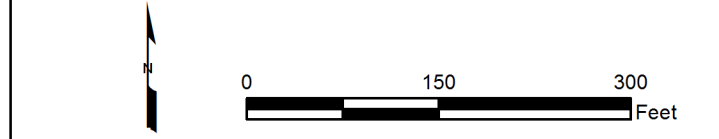
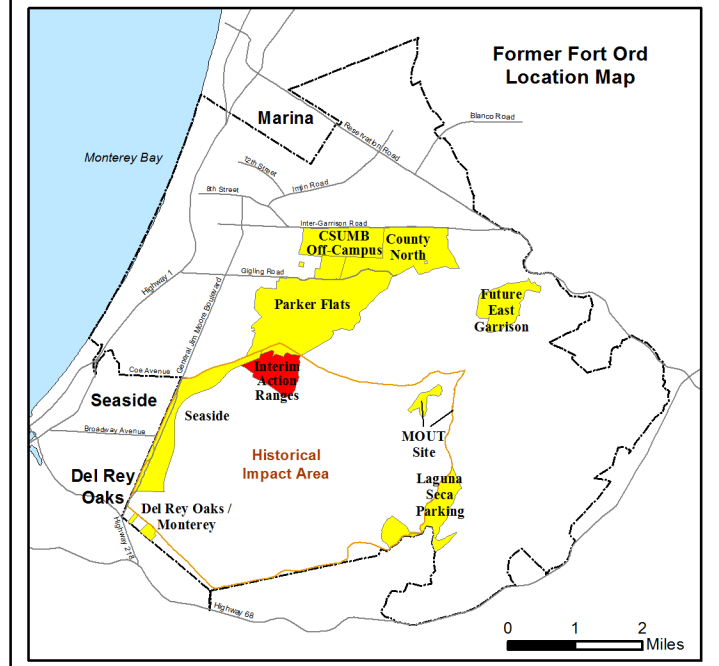
Figure 5-9



Legend

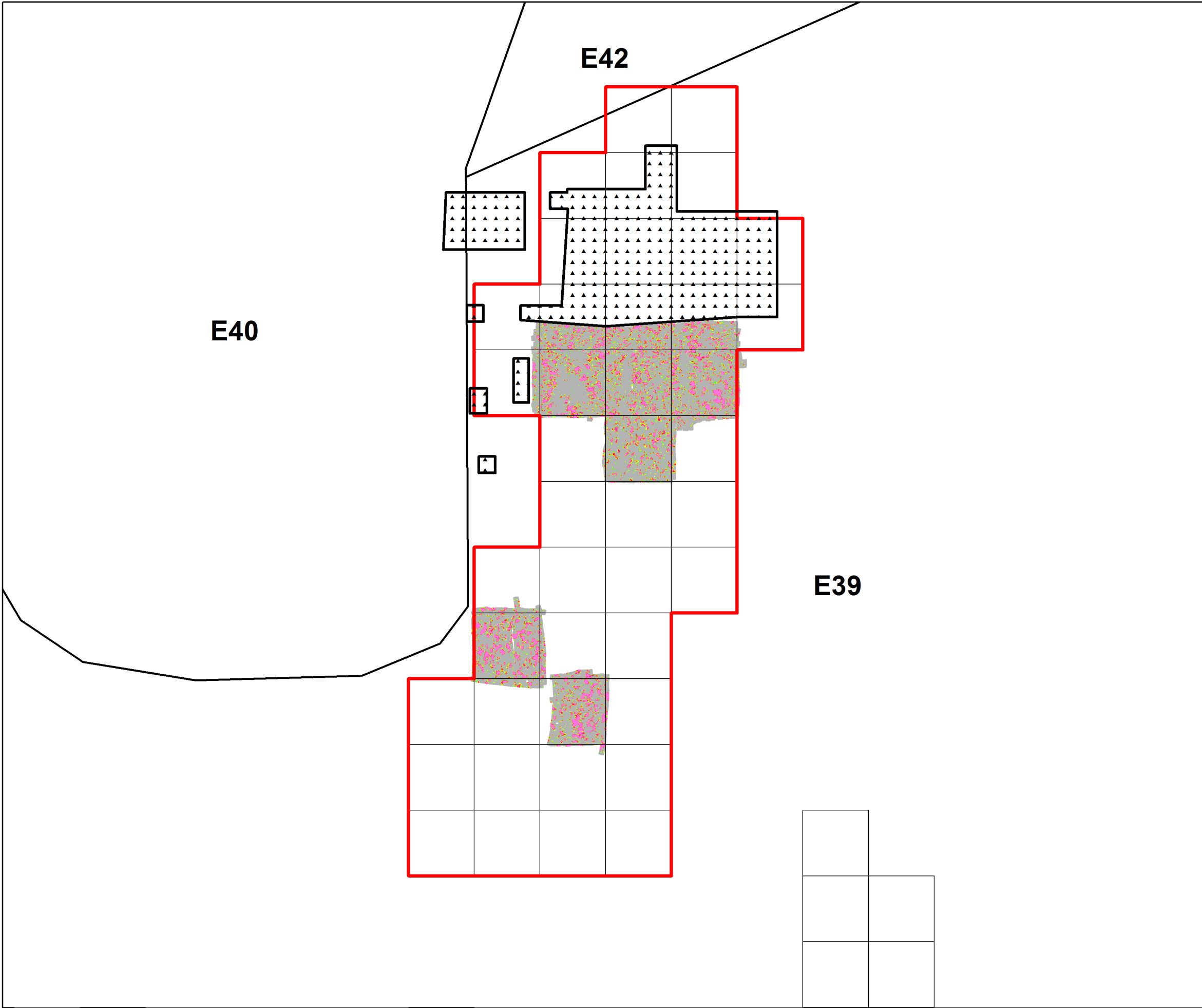


- Range 44 SCA (North)
- E39 USACE Parcel
- ▲▲▲ Army HA-44 Remediation Area
- Former Fort Ord 100-Ft by 100-Ft Grids in Phase II

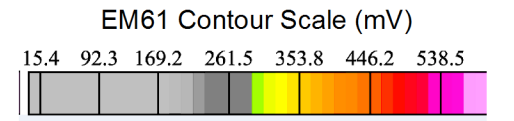



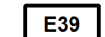


**Interim Action Ranges MRA
Phase II – Range 44 SCA
(North) Design Study
Transect Verification DGM**
FORA ESCA RP
Monterey County, California

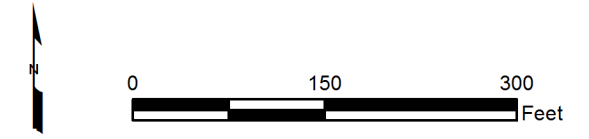
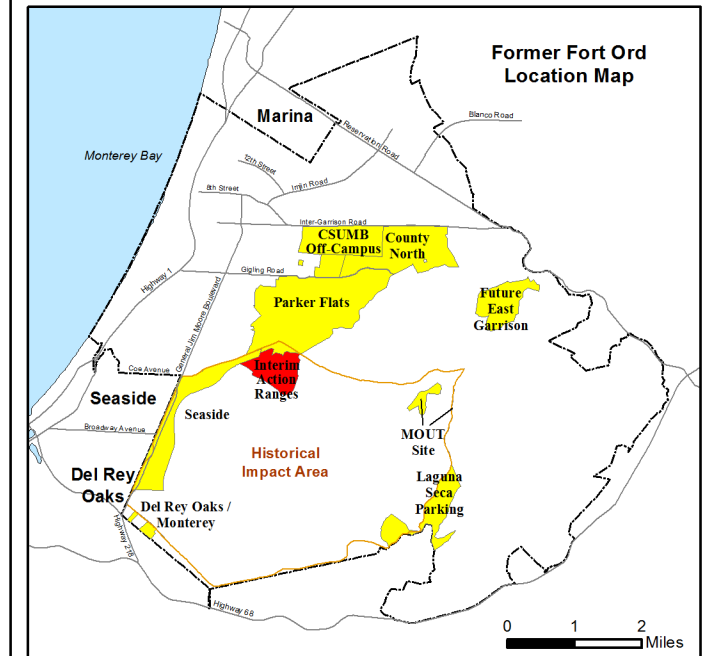
Figure 5-10



Legend



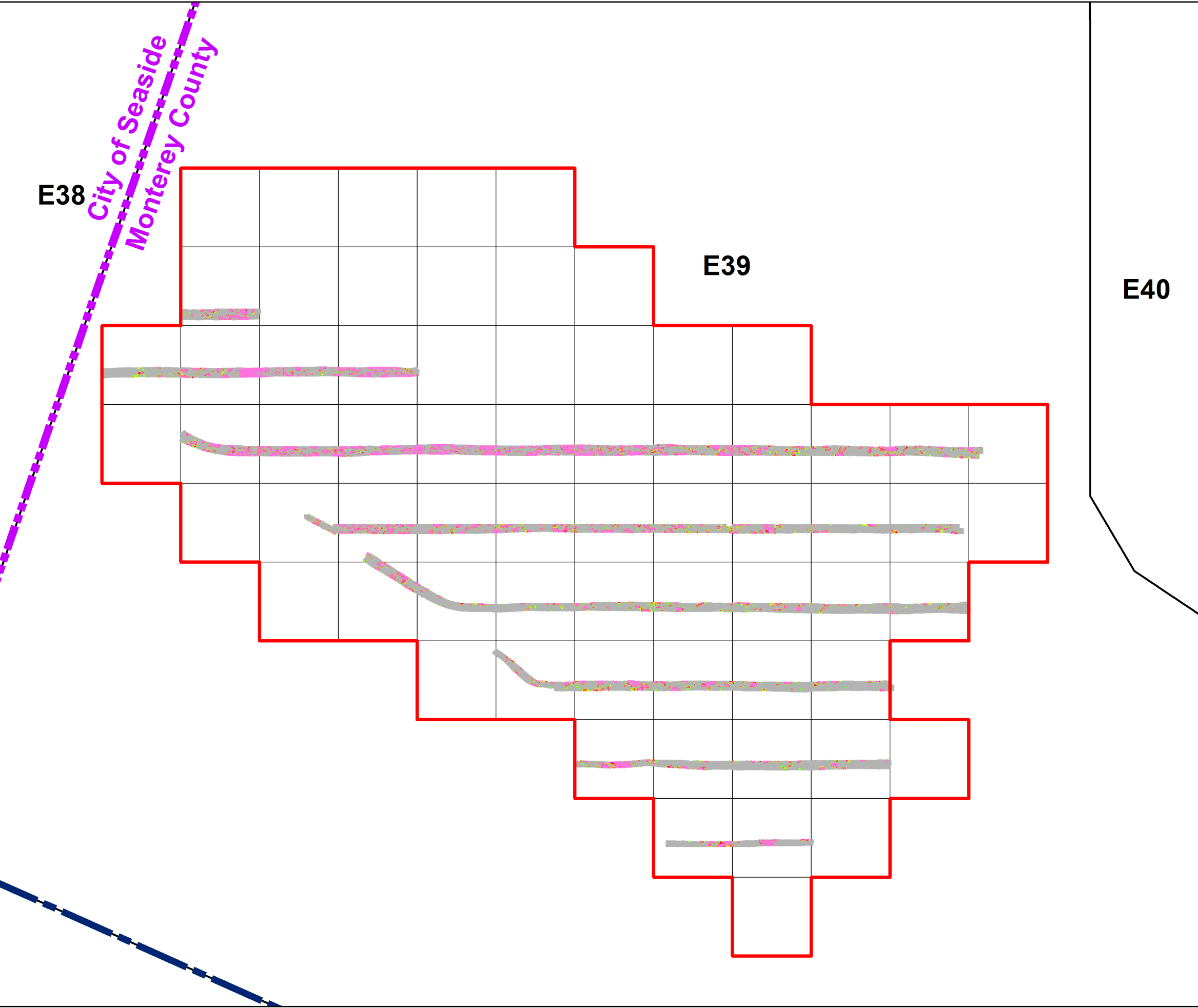
-  Range 44 SCA (North)
-  USACE Parcel
-  Army HA-44 Remediation Area
-  Former Fort Ord 100-Ft by 100 -Ft Grids in Phase II



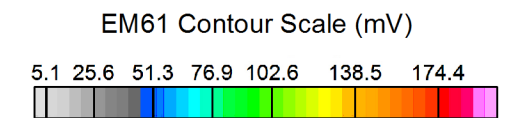
**Interim Action Ranges MRA
Phase II – Range 44 SCA
(North) Design Study
Final Verification DGM**
FORA ESCA RP
Monterey County, California

Figure 5-11

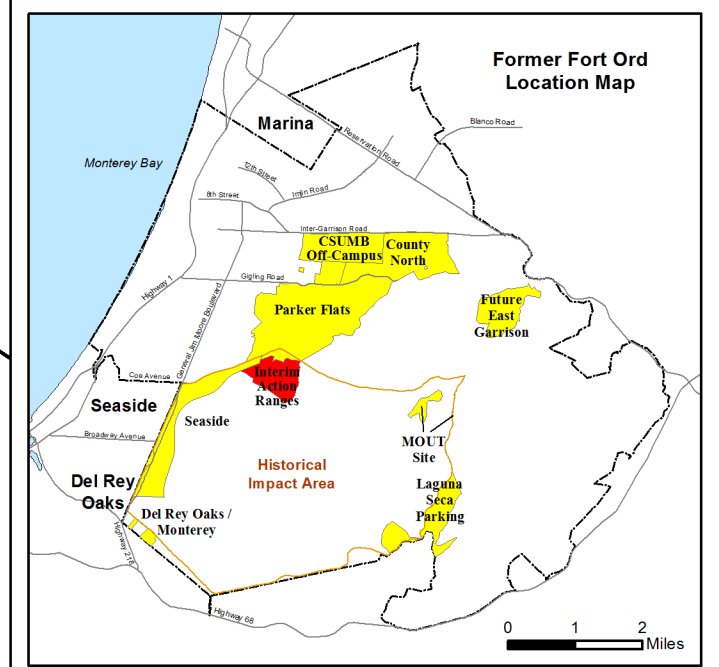
Document Path: Z:\GIS\PROJECTS\ENR\FortOrd\0959516_GIS\Projects\Interim Action Ranges\IRACR\Fig5-12 2014-07-24 IAR_R47_Design_Study_DGM.mxd



Legend



- Range 47 SCA
- E39 USACE Parcel
- - - MRA Boundary
- Former Fort Ord 100-Ft by 100 -Ft Grids in Phase II
- - - Jurisdictional Boundary

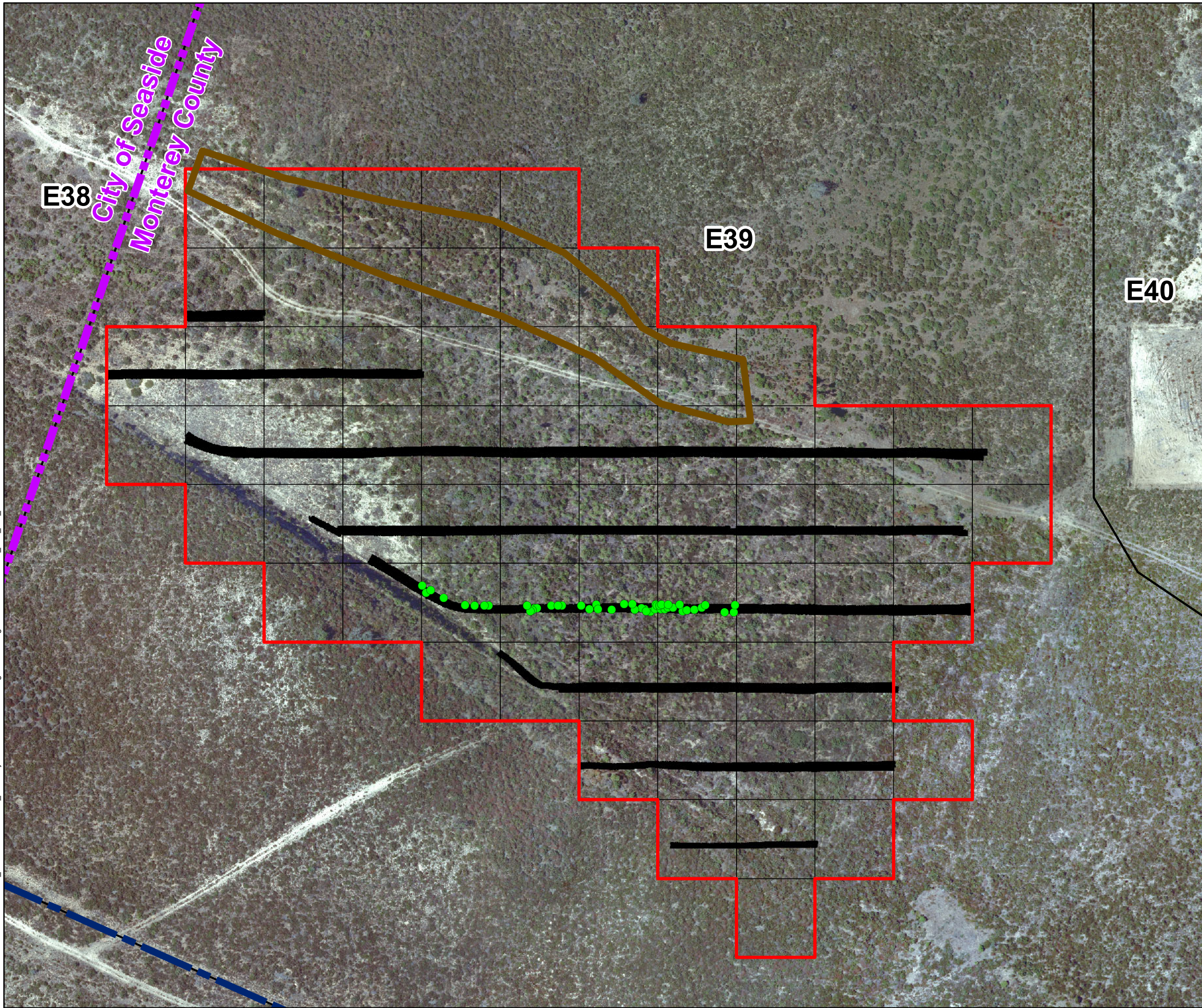


**Interim Action Ranges MRA
Phase II - Range 47 SCA
Design Study DGM**

FORA ESCA RP
Monterey County, California

Figure 5-12

Document Path: Z:\GIS\PROJECTS\ENR\FIO\095956_GIS\Projects\Interim Action Ranges\IRACR\Fig5-13 2014-08-18 IAR_R47_MD_Recovered.mxd



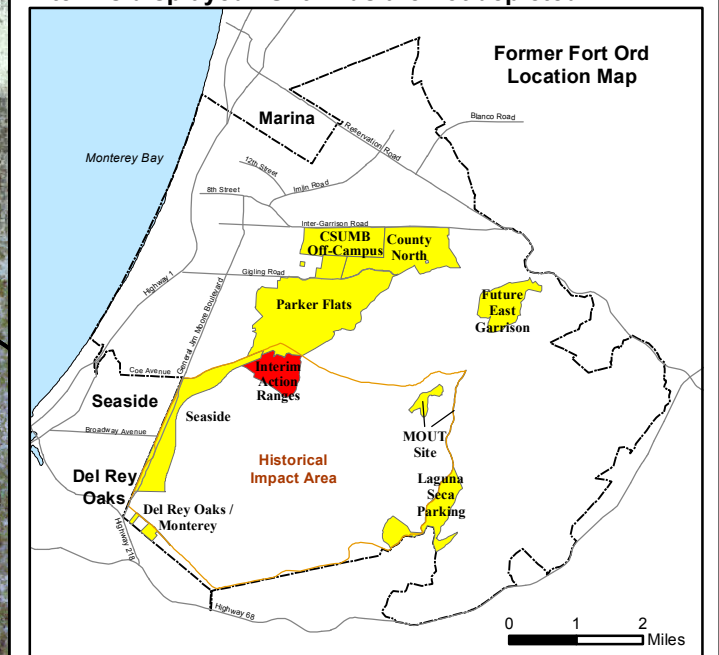
Legend

- Phase II MD Find*
- Range 47 SCA
- Silt Transect
- Approximate Location of Berm
- E39 USACE Parcel
- MRA Boundary
- Former Fort Ord 100-Ft by 100 -Ft Grids in Phase II
- Jurisdictional Boundary

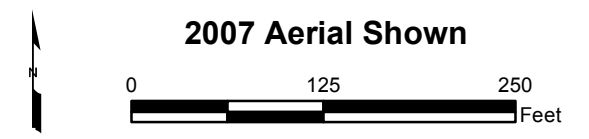
Summary of Sift Finds

131 UXO
8,978 lbs MD

*Note: MD Items displayed may contain multiple items found anywhere within the grid cell in which the item is displayed. Sift finds are not depicted.

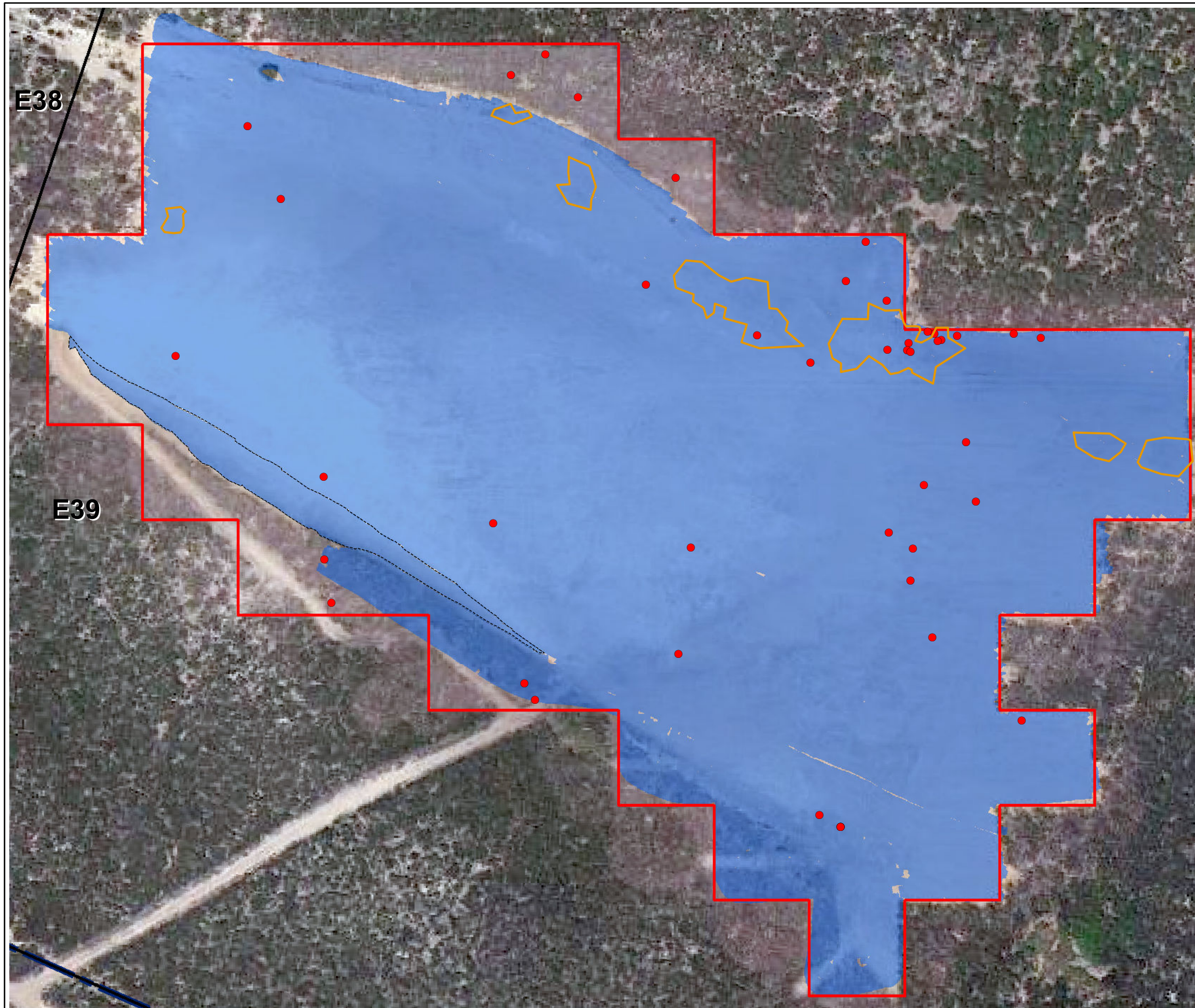


2007 Aerial Shown



**Interim Action Ranges MRA
Phase II - Range 47 SCA
Design Study MEC and
MD Recovered**
FORA ESCA RP
Monterey County, California

Figure 5-13



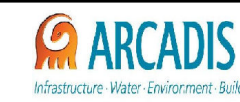
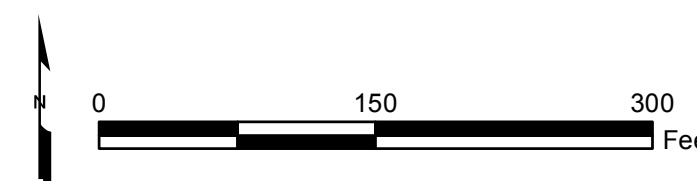
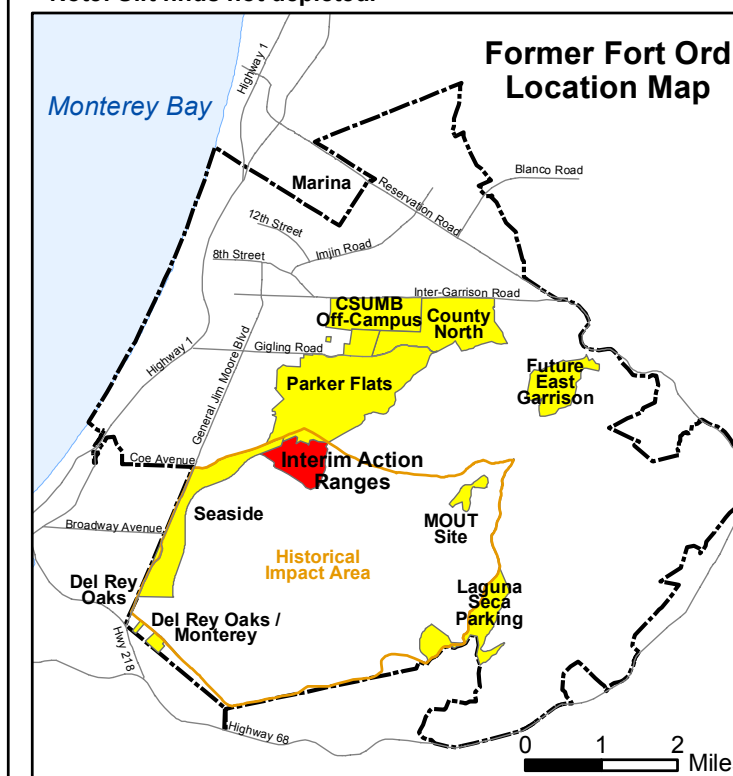
Legend

- Phase II MEC Find *
- Phase II Interim Remedial Action Area
- Munitions Response Area
- E39 USACE Parcels
- Soil Scrape Area
- Verification Polygons
- Sloped Escarpment

Summary of Sift Finds

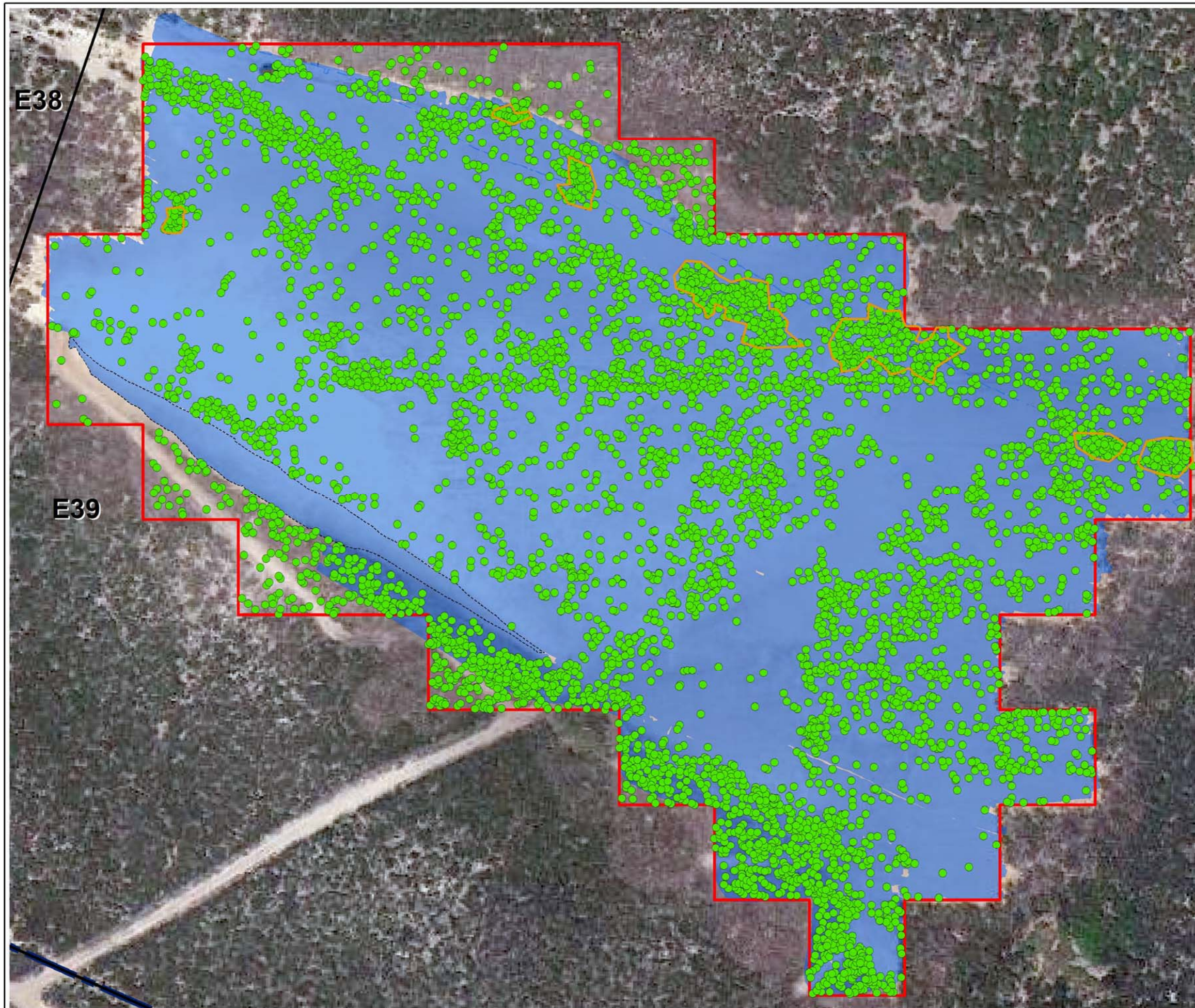
175 - UXO

* Note: Sift finds not depicted.



**IAR MRA Phase II Range 47
SCA Interim Remedial Action
MEC Recovered**
FORA ESCA RP
Monterey County, California

Figure 6-1



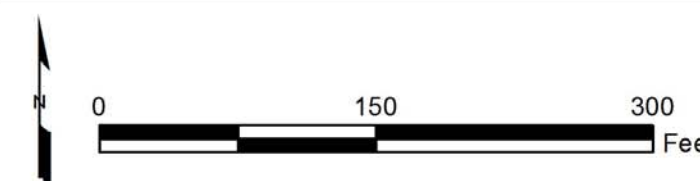
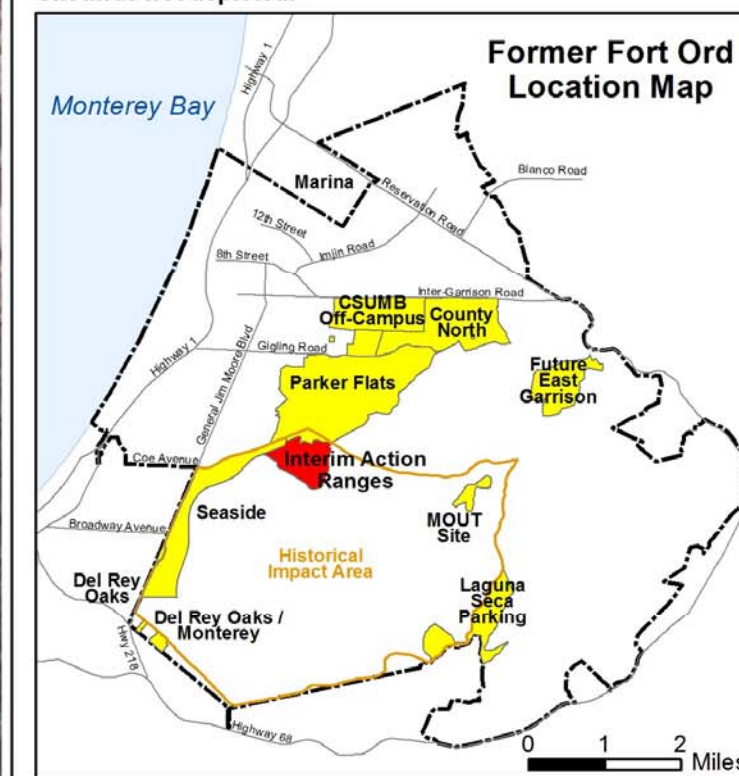
Legend

- Phase II MD Find *
- Phase II Interim Remedial Action Area
- Munitions Response Area
- E39 USACE Parcels
- Soil Scrape Area
- Verification Polygons
- Sloped Escarpment

Summary of Sift Finds

Weight = 2,841 lbs.

* Note: MD Items displayed may contain multiple items found anywhere within the grid cell in which the item is displayed. Sift finds not depicted.



**IAR MRA Phase II Range 47
SCA Interim Remedial Action
MD Recovered**

FORA ESCA RP
Monterey County, California

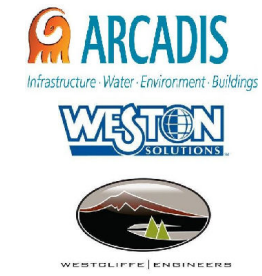
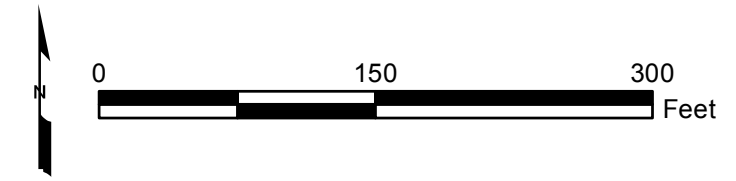
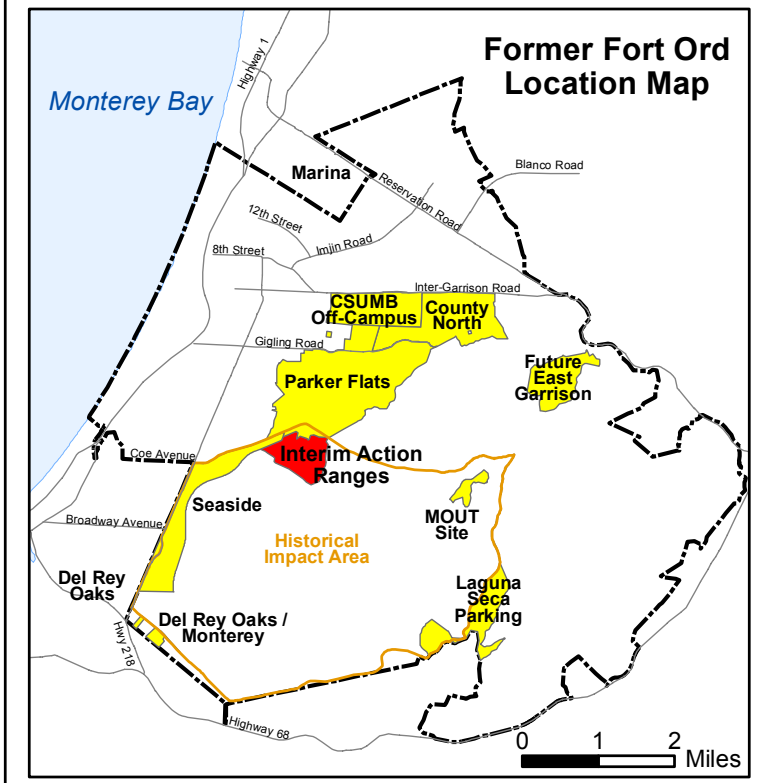
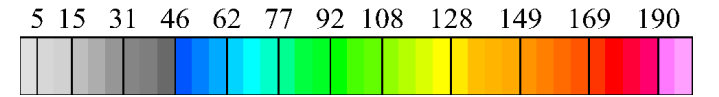
Figure 6-2



Legend

- Phase II Interim Remedial Action Area
- Major Roads
- Munitions Response Area
- E39 USACE Parcels
- Sloped Escarpment
- DGM Survey and Target Investigation Area

EM61 Contour Scale (mV)

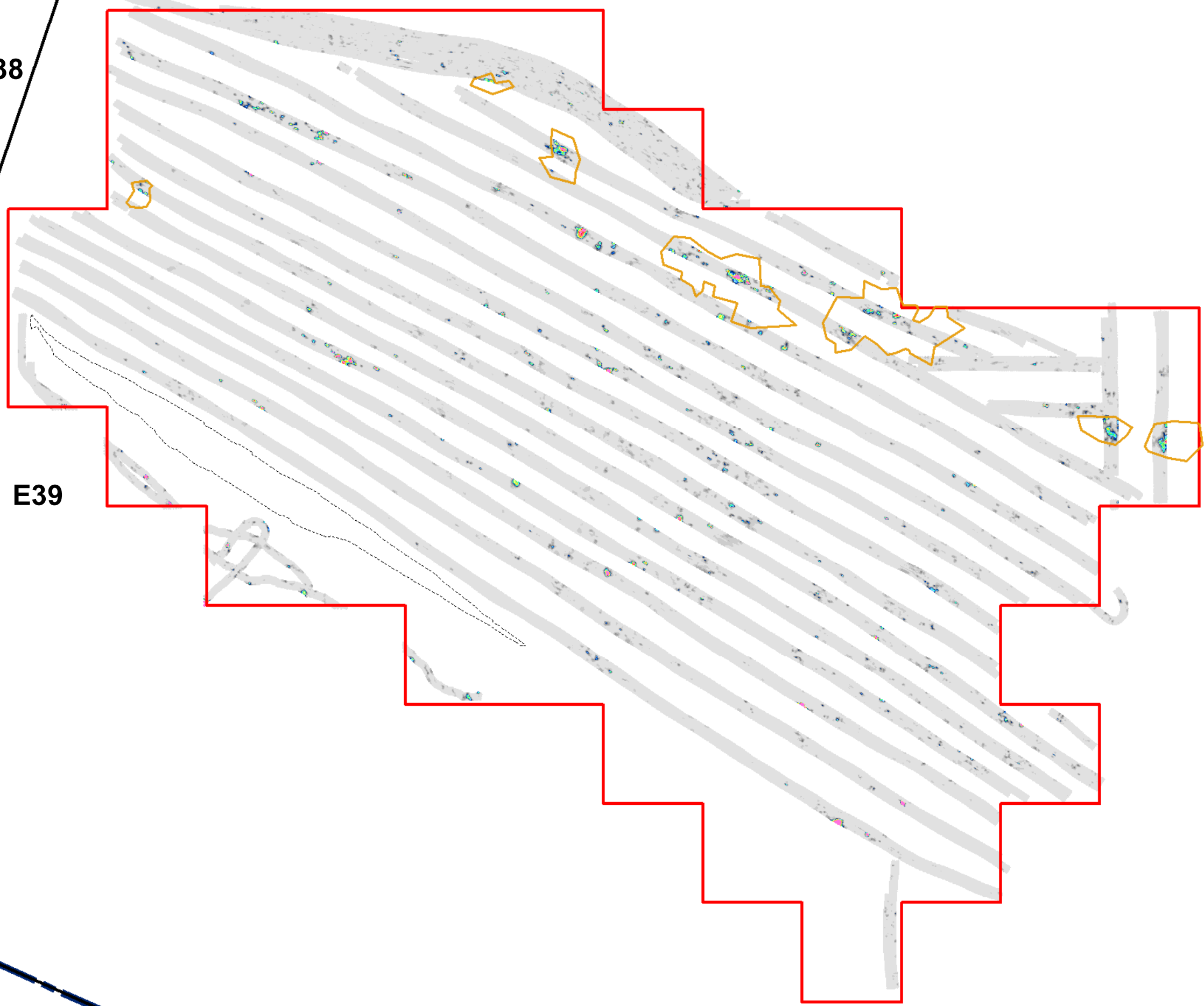


**IAR MRA Phase II
Range 47 SCA Interim
Remedial Action DGM**
FORA ESCA RP
Monterey County, California








Figure 6-3

E38

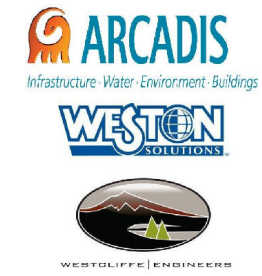
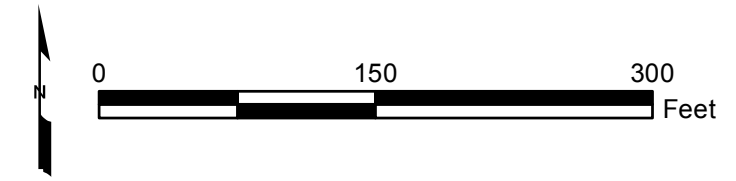
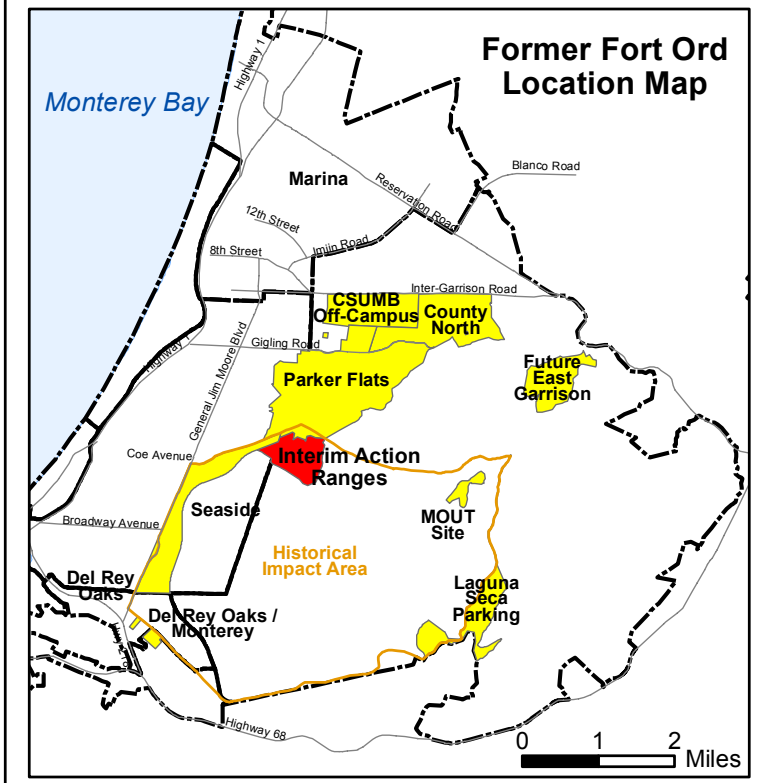
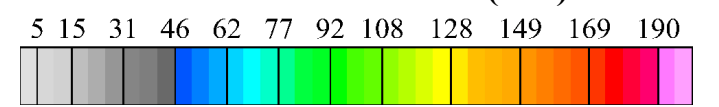
E39



Legend

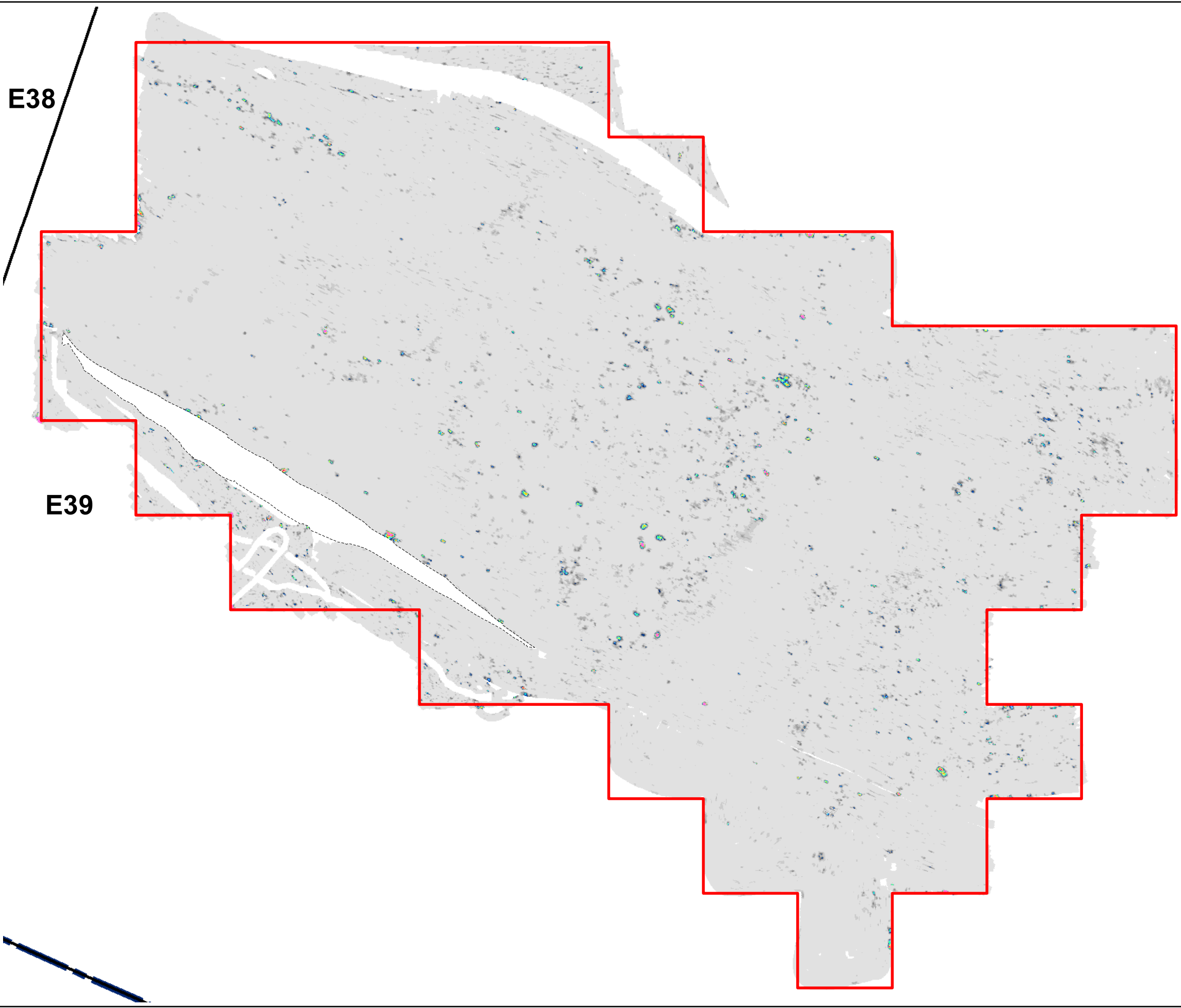
-  Phase II Interim Remedial Action Area
-  Excavated Verification Polygon
-  Major Roads
-  Munitions Response Area
-  USACE Parcels
-  Sloped Escarpment
-  DGM Survey and Target Investigation Area

EM61 Contour Scale (mV)



IAR MRA Phase II Range 47 SCA
 Interim Remedial Action QC-2
 DGM and Verification Polygons
 FORA ESCA RP
 Monterey County, California

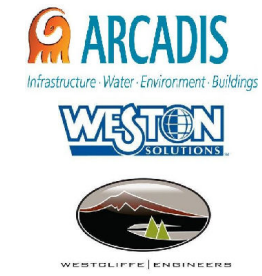
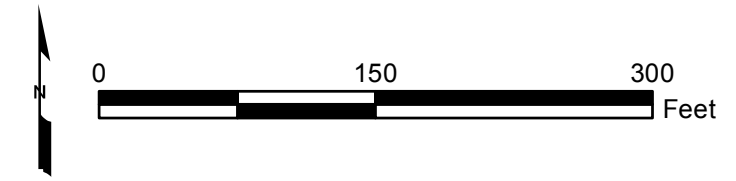
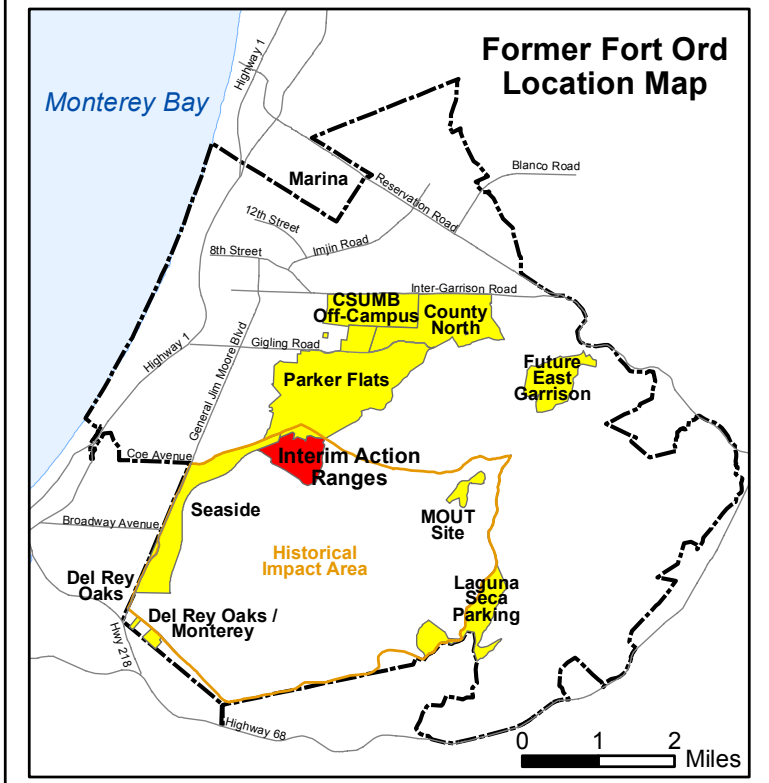
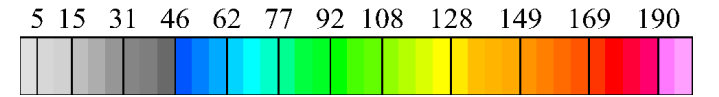
Figure 6-4



Legend

- Phase II Interim Remedial Action Area
- Major Roads
- Munitions Response Area
- E39 USACE Parcels
- Sloped Escarpment
- DGM Survey and Target Investigation Area

EM61 Contour Scale (mV)



**IAR MRA Phase II Range 47
SCA Interim Remedial Action
Verification DGM**
FORA ESCA RP
Monterey County, California

Figure 6-5