

On-Call Construction Support Plan  
Aquifer Storage and Recovery Well Site Expansion and  
Monterey Peninsula Water Supply Projects

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## 1. INTRODUCTION

This On-Call Construction Support Plan (CSP) has been prepared to support the Aquifer Storage and Recovery Well Site Expansion Project (ASR Expansion Project).

- The ASR Expansion Project is being conducted by the Monterey Peninsula Water Management District (MPWMD) on Fort Ord Reuse Authority (FORA) Environmental Services Cooperative Agreement (ESCA) property identified as the Seaside Munitions Response Area (MRA; Parcels E34 and E23.1). The Seaside MRA is shown in Figure 1.
- The ASR Expansion Project is located in the City of Seaside jurisdictional boundaries and subject to excavation permit requirements as identified in City of Seaside Municipal Code Chapter 15.34 Digging and Excavation on the Former Fort Ord Ordinance (i.e., the digging and excavation ordinance).

This CSP identifies the construction support requirements and activities for applicable intrusive activities conducted within the expanded ASR Well Site boundary in accordance with the digging and excavation ordinance, while FORA owns the corresponding ESCA property.

For efficiency, this CSP also includes the proposed alignment for the below-grade Monterey Peninsula Water Supply Project (MPWSP) transmission mains supplying the ASR Well Site within the adjacent General Jim Moore Boulevard (Parcel E34) and upgrades to below-grade pipelines at the intersection of General Jim Moore Boulevard and Hilby Avenue (Parcel E24) being installed by the California-American Water Company (CalAm).

The project sites occupy land that is part of the former Fort Ord Army Installation and was historically used for military training. Because of the former military use at the project site, munitions response actions were completed to remove Department of Defense (DoD) military munitions, many of which were determined upon evaluation by qualified personnel to be Munitions and Explosives of Concern (MEC). Even with completion of munitions response actions, there is potential for munitions to be encountered.

The probability of encountering MEC on the project sites is considered low; therefore, on-call construction support is appropriate for this construction project (Section 2). Under certain circumstances, unexploded ordnance (UXO)-qualified personnel may use anomaly avoidance techniques to avoid subsurface anomalies during specific intrusive activities (e.g., fence post or well installation), if appropriate (Section 3.2).

The basis for the low probability determination was a review of the Final Seaside MRA Technical Information Papers (ESCA RP Team 2008 and 2011), Final Seaside MRA Residential Protocol Implementation (RPI) Technical Report (ESCA RP Team 2017a), Final Seaside MRA Supplemental RPI Technical Report (ESCA RP Team 2017c) and the Final Group 1 Remedial Investigation/Feasibility Study (RI/FS; ESCA RP Team 2017b).

The federal, state and local government agencies (i.e., U.S. Department of the Army [Army], U.S. Environmental Protection Agency [EPA], and California Department of Toxic Substances Control [DTSC]) and other interested parties involved with this CSP are summarized below:

- Army – Ensures FORA compliance with the ESCA; provides review and comment on the CSP
- EPA – Provides regulatory review and comment on the CSP
- DTSC – Provides regulatory review and comment on the CSP
- FORA (as property owner) – Ensures MPWMD and CalAm are in compliance with the FORA right-of-entry agreement and the City of Seaside digging and excavation ordinance requirements; and provides the UXO-support contractor on behalf of MPWMD and Cal Am to support preparation and submittal of the CSP, and associated reporting, to regulatory agencies and the Army for review and comment
- FORA (as party to the ESCA and Administrative Order on Consent [AOC]) – Review reports of munitions, including MEC, encounters (recoveries) during action addressed by this CSP to determine whether the probability determination should be revised, or additional requirements should be imposed to ensure safety and help ensure the probability of encountering MEC will remain low prior to allowing construction activities to resume
- City of Seaside – Enforces the digging and excavation ordinance
- MPWMD and CalAm – Comply with the digging and excavation ordinance on behalf of FORA in accordance with the FORA right-of-entry agreement
- Project Construction Contractors – Comply with this CSP on behalf of MPWMD and CalAm in support of the intrusive activities

This plan is limited to on-call construction support and anomaly avoidance during intrusive activities to be conducted in the northwestern portion of the Seaside MRA (Figure 2). In addition, this plan describes the military munitions recognition and safety training program to be provided to construction workers conducting intrusive activities, the procedures for conducting construction support, and the procedures for initiating a response if a munition or suspect munition is encountered. The construction support requirements that will be implemented include:

- Military munitions recognition and safety training – to ensure that workers involved in intrusive activities are informed about the possibility of encountering munitions and the actions to be taken should they encounter, or suspect they have encountered, a munition. Such actions include (a) not approaching, disturbing, touching or moving it; (b) stopping intrusive activities in the immediate and adjacent areas; and (c) reporting the suspect munitions to the appropriate personnel.
- On-call construction support and anomaly avoidance – ensures (a) intrusive activities are coordinated in advance with UXO-qualified personnel providing support; (b) munitions and suspect munitions encountered are visually evaluated to determine whether they are or

may be MEC, munitions debris (MD), or non-munitions debris (e.g., metal scrap); and such munitions or debris that poses an explosive hazard are reported and managed properly.

- Munitions and material that UXO-qualified personnel determines does not present an explosive hazard should be removed and disposed of in compliance with applicable environmental laws and regulations.
- Under certain circumstances, UXO-qualified personnel may use anomaly avoidance techniques to avoid subsurface anomalies during specific intrusive activities (e.g., fence post or well installation), if appropriate.

This CSP will be present at the project site with the construction contractor responsible personnel during intrusive activities on FORA ESCA property. This CSP will also be present with the UXO-qualified personnel at all times during intrusive activities on FORA ESCA property. Copies of the CSP will be provided to responsible personnel for MPWMD, CalAm, FORA, Arcadis, Weston, Army, EPA, DTSC and City of Seaside permitting agency. This CSP will be amended as site conditions change, if determined to be necessary.

### 1.1. Site Description

The project sites are located in the Seaside MRA (Parcels E24, E34 and E23.1), which is located in the western portion of the former Fort Ord (Figure 1). The project sites are within the boundaries of the Seaside MRA designated residential reuse and non-residential reuse areas (Figure 2), which is wholly contained within the jurisdictional boundaries of the City of Seaside. The Seaside MRA is bordered by the City of Seaside to the west, the historical impact area to the east, Eucalyptus Road to the north, and additional former Fort Ord property to the south. The project site generally consists of maritime chaparral with patches of non-native grassland (ESCA RP Team 2017b).

The current configuration of the ASR well site was constructed between January and February 2008. The new General Jim Moore Boulevard alignment was constructed between December 2007 and December 2010. Military munitions recognition and safety training was provided to construction personnel prior to the start of the project, with construction support provided by UXO-qualified personnel during intrusive activities (Army 2008 and ESCA RP Team 2017b). During these intrusive construction activities, neither munitions nor munitions debris were encountered.

### 1.2. Construction Project Description

MPWMD is expanding the current ASR Well Site, located immediately east of General Jim Moore Boulevard, from approximately 1.1 acres to approximately 1.9 acres to accommodate added capacity needs of other existing and proposed ASR well sites in the Seaside Basin. Design plans include: expansion of the existing backflush pit / percolation basin; construction of secondary ingress/egress routes; construction of a sound attenuation enclosure; placement of a truck off-loading pad; installation of underground piping and fencing; and a possible backup well installation (Figures 2 and 3).

Vegetation clearing, grading and excavation activities in support of the ASR Expansion Project will be conducted to include the following (Figure 3):

- Surveying and boundary staking
- Clearing, grubbing and grading of secondary ingress/egress routes
- Trenching in support of installation of underground piping
- Grading, excavation and scarification of the expanded backflush percolation basis
- Grading and excavation of a disinfectant off-loading facility to include trenching for underground piping, electrical and instrumentation conduits
- Digging of fencing installation and repair post holes
- Grading existing roadways
- Excavation or digging of holes for landscaping
- Drilling, development and installation of backup well (optional)
- Maintenance activities associated with below grade infrastructure
- Installation and maintenance of ASR site landscaping
- General maintenance and repair of underground infrastructure

MPWMD anticipates having UXO-qualified personnel provide anomaly avoidance for certain activities (e.g., auguring fencing post holes, drilling locations for backup wells) to ensure subsurface anomalies are avoided (Section 3.2). On-call construction support will be provided for the remaining intrusive activities (Section 3.2). Should a munition or suspect munition be encountered, workers will not approach, disturb, remove or attempt to destroy it.

CalAm is installing a below-grade MPWSP transmission main line within the adjacent General Jim Moore Boulevard, located immediately west of the ASR Well Site, from Coe Avenue to approximately the southern extent of the ASR Well Site to accommodate added capacity needs of other existing and proposed ASR well sites in the Seaside Basin. Additionally, upgrades to the below-grade pipelines at the intersection of General Jim Moore Boulevard and Hilby Avenue will be conducted. Design plans include: installation of underground piping.

- Excavation activities in support of the CalAm transmission main line installation and upgrades include trenching in support of installation and upgrades of underground piping.

CalAm anticipates having UXO-qualified personnel provide on-call construction support for the intrusive activities (Section 3.2). Should a munition or suspect munition be encountered, workers will not approach, disturb, remove or attempt to destroy it.

### 1.2.1 Soil Management Plan

Intrusive activities within the FORA ESCA property are subject to the following soil management practices:

- Soils within the project site may not be removed from the Seaside MRA, with the exception of small quantities of soil to allow for laboratory analysis under a chain-of custody protocol, for purposes of design specifications
- Clean fill material may be imported, if needed, in accordance with DTSC Information Advisory for Clean Imported Fill Material
- Separate soil management practices are established for the residential reuse areas (Figures 2 and 3; yellow area) and non-residential development reuse areas (Figures 2 and 3; pink area) ensuring that soils from non-residential development reuse areas are not staged, stockpiled or spread within the designated residential reuse areas
- Grading and compacting of soil along access routes will remain within the work site designated reuse area
- Excess soils generated from grading and excavation operations will be stockpiled on the ground surface within the work site designated reuse area, spread evenly with the work site designated reuse area, used as fill material with in the work site designated reuse area, or used for other project specific construction needs within the designated land use area
- Best management practices will be implemented to avoid erosion

### 1.3. Organizational Roles and Responsibilities

MPWMD, CalAm, and their construction contractors, which are the primary organizations involved with construction activities, have their own construction-related roles and responsibilities. MPWMD, CalAm, and their construction contractors will (a) require visitors and subcontractors to check in with the field office prior to entering the area or conducting intrusive activities; and (b) ensure that all project personnel expected to conduct intrusive activities have received military munitions recognition and safety training prior to allowing site access.

The following table identifies and documents the general roles and responsibilities of both the construction support contractor (i.e., UXO-qualified personnel) and MPWMD/CalAm and their construction personnel during intrusive activities on the project site.

Project Personnel	Role	Responsibilities
MPWMD/CalAm Contractor Site Construction Supervisor	Site Access  On-call construction support plan compliance	<ul style="list-style-type: none"><li>• Maintain site access restrictions</li><li>• Coordinate and ensure military munitions recognition and safety training has been received by workers expected to conduct intrusive activities</li></ul>

	Primary contact to coordinate UXO-qualified personnel response	<ul style="list-style-type: none"> <li>• Maintain military munitions recognition and safety training records</li> <li>• If a munition or suspect munition is encountered, intrusive activities in the immediate and adjacent areas are stopped, the area where the munition was encountered is secured and clearly marked to prevent unauthorized access, and workers vacate the area</li> <li>• Contact UXO-qualified personnel to determine whether the munition or suspect munition poses an explosive hazard</li> <li>• Notify construction workers when work can resume</li> </ul>
Intrusive Site Workers	<p>Military munitions recognition and safety training</p> <p>Munition or suspect munition notification to Site Construction Supervisor</p>	<ul style="list-style-type: none"> <li>• Receive and acknowledge understanding of the military munitions recognition and safety training</li> <li>• Stop work if a munition or suspect munition is encountered, retreat to a safe location, and report encounter to the site construction supervisor</li> <li>• Remain at the safe location until authorized by the site construction supervisor to return</li> </ul>
Construction Support Contractor – Arcadis/Weston	<p>Military munitions recognition and safety training support</p> <p>Identify construction support requirements</p> <p>Construction support plan implementation and compliance</p>	<ul style="list-style-type: none"> <li>• Provide military munitions recognition and safety training to workers expecting to conduct intrusive activities</li> <li>• Review munitions-related background and munitions use information to verify probability of encountering MEC</li> <li>• Identify appropriate construction support requirements for intrusive activities</li> <li>• Develop construction support plan</li> <li>• Ensure proper implementation and compliance of the construction support plan</li> <li>• Complete an Army MEC Incident Recording Form for confirmed or suspect munition.</li> <li>• Complete FORA MEC Notification Form for confirmed or suspect munition.</li> <li>• Complete FORA MEC Assessment Form for confirmed or suspect munition.</li> <li>• Complete Construction Support After Action Report</li> </ul>
UXO-Qualified Personnel (at a minimum, UXO	Military munitions recognition and safety training support	<ul style="list-style-type: none"> <li>• Support military munitions recognition and safety training to workers expecting to conduct intrusive activities</li> </ul>



Technician III) – Weston	<p>Construction support during intrusive activities</p> <p>Notify City of Seaside Police Department of confirmed or suspect munitions encounters</p>	<ul style="list-style-type: none"> <li>• Support military munitions recognition and safety training to new workers expected to conduct intrusive activities</li> <li>• Respond to reports of an encounter with munition or suspect munition, visually assess the munition to determine whether it poses or may pose an explosive hazard. Do not touch, move, disturb, or destroy it.</li> <li>• Manage removal, storage, and appropriate off-site disposal of munitions and MD that is determined not to pose an explosive hazard.</li> <li>• Notify City of Seaside Police Department of confirmed or suspect munitions encounters</li> <li>• Notify Construction Support Contractor and FORA of confirmed or suspect munitions encounters</li> </ul>
FORA	<p>Military munitions recognition and safety training access</p> <p>Construction support plan compliance</p>	<ul style="list-style-type: none"> <li>• Assist in coordinating military munitions recognition and safety training to workers expecting to conduct intrusive activities</li> <li>• Ensure compliance of the construction support plan</li> <li>• Review and submit the Army MEC Incident Recording Form for confirmed or suspect munitions.</li> <li>• Review and submit FORA MEC Notification Form for confirmed or suspect munitions.</li> <li>• Review and submit FORA MEC Assessment Form for confirmed or suspect munitions.</li> <li>• Review and submit Construction Support After Action Report</li> </ul>

Additional information on construction support, including on-call construction support after-action reporting, and responses to suspect munition is provided in Sections 3 and 4 of this CSP, respectively.

## 2. MILITARY MUNITIONS BACKGROUND

The project site is located within the northwestern portion of the Seaside MRA where MEC were found and MEC removal actions were completed. The northwestern portion of the Seaside MRA contains portions of munitions response sites (MRSs) that were used for live-fire training with military munitions (Section 2.1). These MRSs were the subject of investigations and removal actions with detected munitions removed (Section 2.2). In addition, the effectiveness of munitions removal actions to reduce the risk associated with the potential presence of munitions to levels acceptable for construction and maintenance personnel who perform intrusive activities, with the appropriate levels of construction support, has been documented for the Seaside MRA, which encompasses the project site (Section 2.2).

### 2.1. Historical Military Training

The Seaside MRA is approximately 423 acres in size and had previously been used for weapons and troop training. Three MRSs (MRS-15 SEA 01 [Parcel E24], MRS-15 SEA 02 [Parcel E34] and MRS-15 SEA 03 [Parcel E23.1]) with historical uses were identified in the project site (Figure 4). The historical uses included:

#### **MRS-15 SEA 01 (Parcel E24)**

- Small arms ammunition training
- Non-firing target range training
- Pre-World War II munitions training
- Hand grenade training
- Troop maneuvers

#### **MRS-15 SEA 02 and MRS-15 SEA 03 (Parcels E34 and E23.1)**

- Troop maneuvers

The types of munitions most likely to be encountered within 100 feet of the project sites include the following:

#### **MRS-15 SEA 01 (Parcel E24)**

- Stokes mortars

#### **MRS-15 SEA 02 and MRS-15 SEA 03 (Parcels E34 and E23.1)**

- Hand grenade fuzes
- Smoke hand grenade

- Illumination signals

## 2.2. Summary of Previous Munitions Response Actions

The Final Group 1 RI/FS summarized the available data and evaluation of the risk associated with munitions that may remain present for the Seaside MRA (ESCA RP Team 2017b). The following bullet points summarize the munitions responses (investigation and removal actions) conducted at the project site based on the referenced document:

- Army Munitions (MEC) Removal Action – completed removal action using digital geophysical survey equipment and analog equipment to the depth of detection in 2004, removing and disposing of munitions, many of which were determined by qualified personnel to be MEC, and MD, which was evaluated to document its explosive safety status, within the project site, with the exception of areas referred to as Special Case Areas (SCAs).
- FORA ESCA Remediation Program (RP) Removal Action – completed the Seaside MRA Phase II removal action for the SCAs using digital geophysical survey equipment and analog equipment to the depth of detection in 2009, removing and disposing of detected munitions (MEC) and MD, which was evaluated to document its explosive safety status, within the SCA portions of the project site.

The munitions, including MEC, recovered during previous investigation and response actions within the project site are shown in Figure 5.

The Final Seaside MRA Residential Protocol Implementation (RPI) Technical Report and Final Seaside MRA Supplemental RPI Technical Report summarized the available data and verified the acceptability for residential use for the Seaside MRA designated residential reuse area (ESCA RP Team 2017a and 2017c). Based on an evaluation of the Final Group 1 RI/FS, Final Seaside MRA RPI Technical Report, and Final Seaside MRA Supplemental RPI Technical Report (ESCA RP Team 2017b, 2017a, and 2017c, respectively), the following conclusions support a low probability of encountering MEC determination at the project site:

- Completed removal action to the depth of detection with no documentation or quality assurance/quality control (QA/QC) concerns and an overall MEC risk of “lowest” in the designated residential reuse areas and non-residential development reuse areas of Parcels E24, E23.1 and E34 based on the Final Group 1 RI/FS
- No remaining evidence of high hazard munitions (i.e., items that will cause major injury or death if functioned or detonated by an individual’s activities), no remaining technical challenges, no remaining detection depth concerns, and no remaining documentation or QA/QC concerns in the designated residential reuse portions of Parcels E23.1 and E34 based on the Final Seaside MRA RPI Technical Report
- Further assessment or verification was not required in the designated residential reuse portions of Parcels E23.1 and E34 and the parcels were recommended as acceptable for

- residential reuse in the designated residential reuse areas based on the Final Seaside MRA RPI Technical Report
- Further assessment and verification was conducted in the designated residential reuse portion of Parcel E24. The Parcel was recommended as acceptable for residential reuse in the designated residential reuse area based on the Final Seaside MRA RPI Technical Report and the Final Seaside MRA Supplemental RPI Technical Report

### 3. CONSTRUCTION SUPPORT PROCEDURES

Training and construction support will be provided for intrusive activities to fulfill the requirements of the excavation permit under the City of Seaside Excavation and Digging on the Former Fort Ord Ordinance (City of Seaside Code of Ordinances, Chapter 15.34), and includes:

- Military Munitions Recognition and Safety Training (Section 3.1)
- On-Call Construction Support (Section 3.2)
- After-Action Reporting (Section 3.3)

#### 3.1. Military Munitions Recognition and Safety Training

Excavation permitting requirements indicate that all personnel involved in intrusive activities obtain military munitions recognition and safety training. Site workers involved in intrusive activities will be provided military munitions recognition and safety training by FORA in English and Spanish (translation of additional languages may be available upon request). The objective of military munitions recognition and safety training is to ensure that site workers involved or potentially involved in intrusive activities are informed about the possibility of encountering munitions and the actions to be taken should they encounter, or suspect they have encountered, a munition. Such actions include (a) not approaching, disturbing, touching or moving it; (b) stopping intrusive activities in the immediate and adjacent areas; and (c) reporting the suspect munitions to the appropriate personnel.

The military munitions recognition and safety training will be provided through a training video that covers the below topics and access to UXO-qualified personnel to address questions:

- Background Information
  - Who is the training for and why is training needed?
  - What are munitions and types of munitions used on Fort Ord?
  - What was done to remove munitions?
  - If munitions cleanup occurred, why training is still needed?
  - What should you do if you encounter a munition or suspect munition?
- Munitions recognition and hazard awareness
  - Not all munition look like munitions
  - Munitions are dangerous
  - Fort Ord specific munitions recognition (by type)
  - Munition hazard identification
- Details of munitions safety – emphasizing the 3Rs

- Recognize (when you may have encountered a munition and that munitions are dangerous)
- Retreat (do not approach, touch, move or disturb it, but carefully leave the area)
- Report (notify your site supervisor to contact the UXO-qualified personnel)

MPWMD, CalAm, and their construction contractors will ensure that site workers conducting intrusive activities have received the required military munitions recognition and safety training from FORA, which includes the Army Safety Alert, the Fort Ord Military Munitions 3Rs Explosives Safety Guide, and the training video attendance. Site workers receiving military munitions recognition and safety training will be required to sign a training log acknowledging their attendance and understanding of the training material. The training records are required to be maintained by each contractor on the site and be available for inspection upon request by FORA, Army, EPA and/or DTSC. Copies of the training records will also be maintained by FORA and provided to the UXO-qualified personnel for tracking and on-call construction support after-action reporting.

### 3.2. On-Call Construction Support

This section presents procedures for implementing on-call construction support for a project site where the probability of encountering MEC is low (Section 2). UXO-qualified personnel must meet the qualification requirements of DoD Explosives Safety Board's Technical Paper 18, Minimum Qualifications for Personnel Conducting Munitions and Explosives of Concern-Related Activities, for a UXO Technician III. Additionally, they will possess the appropriate training to include 40-hour Hazardous Waste Operations and Emergency Response and associated 8-hour Hazardous Waste Operations and Emergency Response refresher course (within the past 12 months).

UXO-qualified personnel will comply with any MPWMD, CalAm, and their construction contractors approved safety plans. Additionally, they will conduct required actions in accordance with applicable company health and safety requirements, which are not presented in this CSP.

UXO-qualified personnel, who will be on standby (i.e., on-call), will be available to assist if a munition or suspect munition is encountered. Support can be provided from offsite, when called, or be on location and available to provide immediate support if a munition or suspect munition is encountered. MPWMD, CalAm, and their construction contractors may elect to have UXO-qualified personnel available on-location for a portion of the intrusive activities to expeditiously facilitate a response if a munition or suspect munition is encountered (Section 4.1). The UXO-qualified personnel responsibilities will include the following tasks:

- Possess a copy of this CSP at all times during the intrusive activities on FORA ESCA property
- Maintain a copy of Military Munitions Recognition and Safety Training sign-in sheets/logs
- Conduct anomaly avoidance activities, if requested
- If on the project site, attend daily informational or tailgate safety briefings conducted by MPWMD, CalAm, and their construction contractors

- Respond to reports of an encounter with a munition or suspect munition as described below and in Section 4 of this CSP
- Produce daily field reports of on-call/on-location activities and submit to FORA on a weekly basis
- Prepare after-action reporting to construction support contractor (i.e., Arcadis and Weston) as described in Section 3.3

If requested, anomaly avoidance will consist of a technology-aided surface inspection using a handheld geophysical detection instrument (e.g., magnetometer and Whites All-Metals detector) to avoid contact with potential subsurface anomalies. If an anomaly is detected, the anomaly's location will be cordoned off, if necessary, to prevent disturbance. Additionally, ground-disturbing or intrusive activities will be relocated to another location in coordination with project personnel.

If a munition or suspect munition is encountered during intrusive activities, it is imperative that the munition not be touched, moved, or disturbed, but be reported immediately to the site construction supervisor. Workers should:

- Mark the area near or otherwise note the location of the munition or suspect munition (Recognize)
- Stop work, take a photograph of the munition, if possible, but do not approach or disturb it to get a better view, and leave the work area (Retreat)
- Report the suspect munition to their site construction supervisor (Report)

The site construction supervisor will ensure that construction-related activities within a 200-foot radius of the munition or suspect munition is stopped, workers evacuate to a safe area, and access to the 200-foot radius prohibited. The site construction supervisor will then contact the UXO-qualified personnel for support.

UXO-qualified personnel will respond to the area and visually inspect the munition or suspect munition. UXO-qualified personnel will not touch, disturb, remove or attempt to destroy it. UXO-qualified personnel will determine whether it poses or may pose an explosive hazard. After this evaluation, munitions determined to be MEC and debris that poses an explosive hazard will be reported, secured in place and managed properly. Munitions and material that UXO-qualified personnel determines does not present an explosive hazard should be removed and disposed of in compliance with applicable environmental laws and regulations. UXO-qualified personnel will follow the appropriate procedures identified in Section 4 of this CSP, which generally include the following.

If UXO-qualified personnel classify the encountered munition as:

- A confirmed or suspect MEC or that debris poses an explosive hazard, the procedures presented in Section 4.2 will be implemented.

- MD, the debris will be evaluated to ensure it does not pose an explosive hazard and removed from the site. The debris will be securely stored at the Future East Garrison MRA Explosives Storage Location (i.e., the former Ammunition Supply Point) for appropriate off-site disposal at project's conclusion. Following removal of the MD, the UXO-qualified personnel will notify the site construction supervisor that intrusive activity may resume within the 200-foot radius area. The UXO-qualified personnel will contact FORA as an informational notification of each MD find (Section 4.1). Recovered MD will be certified as materials documented as safe (MDAS) by the construction support contractor using Form 1348 prior to releasing the MD to an appropriate foundry or recycler at the project's conclusion. (Section 3.3).
- Non-munitions related debris (e.g., household scrap metal, horse shoes) will be removed from the project site by the construction contractor and managed as appropriate. Following removal of the non-munitions related debris, UXO-qualified personnel will notify the site construction supervisor that intrusive activity may resume within the 200-foot radius area. Notification to FORA regarding non-munitions related debris or inclusion of non-munitions related debris in the on-call construction support after-action report is not required.

### 3.3. After-Action Reporting

Following completion of the construction support activities conducted on FORA ESCA property, FORA as the property owner will submit an on-call construction support after-action report to the excavation permitting agency, Army, EPA, and DTSC (Attachment B). The on-call construction support after-action report will be submitted within 30 days of project completion and will include at a minimum: a map of the excavation footprint with munition finds plotted; table summarizing munitions encountered by type, munitions determined to be MEC, munitions debris, or military training-related items (range-related debris) recovered from the project site; applicable military munitions recognition and safety training logs; and applicable construction support daily reports.



## 4. RESPONSE TO SUSPECT MUNITIONS ITEM PROCEDURES

Only UXO-qualified personnel will respond to reports of an encounter with a munition or suspect munition. The exception is when uniformed DoD explosive ordnance disposal (EOD) or law enforcement bomb squad personnel respond. The response procedures are presented in this section and are summarized as follows:

- Response to Suspect Munitions Item (Section 4.1) – In the event a munition or suspect munition is encountered by site workers (i.e., Recognize), intrusive activities within the immediate and adjacent areas will cease (i.e., Retreat), workers evacuate to a safe area, and a 200-foot radius area will be secured from unauthorized entry. The site construction supervisor will then contact the UXO-qualified personnel for support (i.e., Report).
- Response to Confirmed or Suspect MEC Item (Section 4.2) – In the event the encountered item is classified by UXO-qualified personnel as a confirmed or suspect MEC item work outside the 200-foot radius area may continue; however, work should not interfere with security measures set in place for the suspect munitions item or authority's response to the suspect munitions item. UXO-qualified personnel will immediately notify the City of Seaside Police Department (Table 1) followed by FORA of the confirmed or suspect MEC find. FORA will immediately contact the Army, EPA and DTSC of the confirmed or suspect MEC find.
- MEC Find Notification Form (Section 4.3) – If, after disposal, the suspect item is confirmed to be MEC or remains a suspect MEC, the UXO-qualified personnel will complete the Army MEC Incident Recording Form (Attachment C) and MEC Find Notification to FORA Form (Attachment D) and transmit the two forms to FORA.
- MEC Find Assessment Form (Section 4.4) – If, after disposal, the suspect MEC item is confirmed to be MEC or remains a suspect MEC, FORA will assess the probability of encountering MEC and will submit the assessment to Army, EPA and DTSC for concurrence using the FORA MEC Find Assessment Form (Attachment E).
- Restart of Work after MEC Find (Section 4.5) – Intrusive activities will not resume within the 200-foot radius exclusion zone until any additional necessary investigation is completed based on the MEC find assessment and Army, EPA and DTSC concurrence that the probability of encountering MEC is low.

### 4.1. Response to Suspect Munitions Item

Each individual is responsible for reporting suspect munitions items discovered during construction activities. If a suspect munitions item is discovered at the project site (i.e., Recognize), all work activities will cease within a 200-foot radius of the suspect munitions item, all workers will vacate the 200-foot radius area (i.e., Retreat), and the 200-foot radius area will be secured from unauthorized entry. No attempt should be made by workers to disturb, remove, or destroy the suspect munitions item. The site workers will notify their site construction supervisor, who will contact the UXO-qualified personnel to mobilize to the project site and assess the suspect munitions item (i.e., Report). Contact information is provided in Table 1.

The general sequence of work stoppage in response to a suspect munitions item is as follows:

- Intrusive activities will cease, heavy equipment and/or site vehicles are to stay in place, workers are to vacate a 200-foot radius area of the suspect munitions item and the 200-foot radius area will be secured from unauthorized entry.
  - If feasible and safe to do, the general location of the suspect munitions item should be marked, global position system (GPS) coordinates should be recorded and pictures of the item taken.
- Site personnel will immediately contact the site construction supervisor to report the suspect munitions item.
- Site construction supervisor will confirm that all work has stopped within a 200-foot radius of the suspect munitions item, workers have retreated to a safe location at least 200-feet from the suspect munitions item and the 200-foot radius area is secured from unauthorized entry.
- Site construction supervisor will immediately contact the on-call UXO-qualified personnel (Table 1) and provide GPS coordinates and/or pictures of the suspect munitions item, if available.
  - If the UXO-qualified personnel cannot respond within the normal work day, MPWMD, CalAm, and their construction contractors will maintain control of the 200-foot radius area to prevent intrusive activities and to prevent unauthorized entry.
- On-call UXO-qualified personnel will mobilize to the location of the suspect munitions item and ensure the item is evaluated and classified as confirmed or suspected MEC, MD, or non-munitions related debris (e.g., scrap metal).
  - If feasible, a visual assessment of any photographs will be conducted by the UXO-qualified personnel prior to mobilization to the site to determine if the item is munitions-related or non-munitions-related debris (e.g., metal scrap).
- **If the item is classified by the UXO-qualified personnel as confirmed or suspect MEC, the UXO-qualified personnel will implement the procedures outlined in Section 4.2.**
- If the item is classified by the UXO-qualified personnel as MD, the item will be removed by the UXO-qualified personnel and securely stored at the Future East Garrison MRA Explosives Storage Location (i.e., the former Ammunition Supply Point) for appropriate off-site disposal at project conclusion.
  - Following removal of the MD, the UXO-qualified personnel will notify the site construction supervisor that intrusive activities may resume within the 200-foot radius area.
  - Following notification that intrusive activities may resume, the UXO-qualified personnel will contact FORA within 24 hours as an informational notification of the MD find. A summary of the recovered MD will be provided in the on-call construction support after-action report (Section 3.3).

- If the item is confirmed to be non-munitions-related debris (e.g., scrap metal), the item will be removed from the project site by the construction contractor and managed as appropriate.
  - Following removal of the non-munitions-related debris, the UXO-qualified personnel will notify the site construction supervisor that intrusive activities may resume within the 200-foot radius area.
  - Notification to FORA regarding non-munitions-related debris or inclusion of non-munitions-related debris in the on-call construction support after-action report is not required.

#### 4.2. Response to Confirmed or Suspect MEC Item

At no time should a confirmed MEC or suspect MEC item be disturbed, remove, or destroyed by workers or UXO-qualified personnel. If an item is classified as a confirmed or suspect MEC item by the UXO-qualified personnel, all work within the 200-foot radius area may not resume until further notice. If it is determined that the confirmed or suspect MEC item requires detonation by uniformed DoD EOD personnel or local bomb squad with equivalent training, all work on the entire project site will immediately cease and all site workers will gather at a location designated by the construction contractor under their emergency evacuation plan.

The general sequence of work stoppage and construction support actions in response to a confirmed or suspect MEC item is as follows:

- Intrusive work within the immediate and adjacent areas will cease (i.e., Retreat), workers evacuate to a safe area, and a 200-foot radius area will be secured from unauthorized entry. The site construction supervisor will then contact the UXO-qualified personnel for support. Work outside the 200-foot radius area may continue, if necessary. However, work should not interfere with security measures set in place around the munition or suspect munition encountered.
- UXO-qualified personnel will secure the location of the munition or suspect munition encountered, or of a munition or munition determined to be MEC or munition for which UXO-qualified personnel could not make a determination, to prevent unauthorized access.
- UXO-qualified personnel will record the GPS location and take photographs of the munition.
- UXO-qualified personnel will immediately contact the City of Seaside Police Department to mobilize to the project site and secure the location of a munition or munition determined to be MEC or munition for which UXO-qualified personnel could not make a determination.
- Upon arrival, the City of Seaside Police Department will secure the area, consult with the UXO-qualified personnel, and request uniformed DoD EOD personnel or local bomb squad with equivalent training, support of an explosives or munitions emergency.
  - If the City of Seaside Police Department, uniformed DoD EOD personnel, or local bomb squad with equivalent training, cannot respond within the normal work day,

MPWMD, CalAm, and their construction contractors will maintain control of the 200-foot radius area to prevent intrusive activities and to prevent unauthorized entry.

- UXO-qualified personnel will immediately notify FORA and Arcadis/Weston that a munition or suspect munition was encountered and provide status of response by City of Seaside Police Department, uniformed DoD EOD personnel, or local bomb squad with equivalent training.
- FORA will immediately contact the Army, EPA, and DTSC regarding the situation.
- If the munition determined to be MEC or a munition for which they could not make a determination requires detonation by uniformed DoD EOD personnel or local bomb squad personnel with equivalent training, work activities within an area determined by the responding uniformed DoD EOD personnel or local bomb squad team leader will be stopped, with construction and UXO-qualified personnel evacuated to a designated area in accordance with an emergency evacuation plan for an accurate head-count.
- Once the uniformed DoD EOD or local bomb squad personnel provide an all clear, UXO-qualified personnel will assist Arcadis/Weston with completion of necessary notifications and reports (Section 4.3).
  - If MEC was encountered, intrusive activities may not resume within the 200-foot radius until the appropriate reporting in accordance with Section 4.3 has been completed; additional investigation, if determined to be necessary, is completed; and Army, EPA and DTSC concur that the probability of encountering MEC remains low. Based on the type of MEC encountered, the 200-foot radius may be expanded for activities moving forward, if recommended by the construction support contractor in consultation with UXO-qualified personnel.
  - If uniformed DoD EOD or local bomb squad personnel determine the munition, or munition for which the determination initially could not be made, is MD that does not pose an explosive hazard, intrusive activities may resume as described in Section 4.1, seventh bullet.

#### 4.3. MEC Find Notification to FORA Form

After disposal of a confirmed MEC or of a munition for which a determination could not be made, the construction support contractor (i.e., Arcadis/Weston) in coordination with the UXO-qualified personnel will complete an Army MEC Incident Recording Form (Attachment C) and a MEC Find Notification to FORA Form (Attachment D) and submit the forms to FORA for distribution to the Army, EPA, and DTSC. The Army MEC Incident Recording Form will be submitted to FORA within 24 hours of the disposal of MEC. FORA will distribute the completed MEC Incident Recording Form to the Army, EPA and DTSC with 48 hours of the disposal. The construction support contractor will provide FORA with the MEC Find Notification to FORA Form within 48 hours of disposal to support the munitions find assessment (Section 4.4).

#### **4.4. MEC Find Assessment Form**

FORA will propose to the Army, EPA, and DTSC an appropriate probability of encountering MEC (low or moderate/high) and a recommendation for the level of construction support (on-call or on-site) appropriate for the site conditions. FORA will document the munitions, including MEC, encounters assessment and proposed determination on the FORA MEC Find Assessment Form (Attachment E) and will submit the form with required attachments to the Army, EPA, and DTSC for review within 20 days of a munitions encounters.

The probability of encountering MEC and the resulting level of construction support will be jointly determined by the Army, EPA, and DTSC. If determined that additional investigation is required as part of the assessment, FORA will conduct the investigation in accordance with an approved work plan, if within the scope of its obligations. Army, EPA, and DTSC will review the results of the investigation to support the munitions find assessment.

If the probability of encountering MEC is determined to remain low, intrusive activities may resume using on-call construction support and this CSP (Section 4.5). FORA will receive written determination from the Army, EPA, and DTSC of their assessment and provide a copy of the written determination to MPWMD, CalAm and their construction contractors prior to resuming intrusive activities within the 200-foot radius. If the probability of encountering MEC is determined to be moderate to high, intrusive work at the project site will cease until further notice.

The agency consultation process will be completed as expeditiously as practicable. Intrusive activities on the FORA ESCA property may not restart until the assessment is completed, the Army, EPA, and DTSC have made a determination of the probability of encountering MEC, and any required additional action has been conducted by FORA. FORA will receive written determination from the Army, EPA, and DTSC on the MEC finds assessment completion and provide a copy of the determination to MPWMD, CalAm, and their construction contractors prior to resuming intrusive activities on the FORA ESCA property using on-call construction support and this CSP (Section 4.5).

#### **4.5. Restarting Work after a MEC Find**

After disposal of a confirmed MEC or of a munition for which a determination could not be made, intrusive activities may not resume within a 200-foot radius until the munitions find assessment has been completed; the Army, EPA and DTSC have concurred with the assessment; and required additional actions or procedures have been conducted. Based on the type of MEC encountered, the 200-foot radius may be expanded for activities moving forward, if recommended by the construction support contractor in consultation with UXO-qualified personnel. FORA will receive written determination from the Army, EPA, and DTSC on the MEC finds assessment completion and provide a copy of the determination to the permittee prior to resuming intrusive site activities using on-call construction support and this CSP.

## 5. REFERENCES

- Environmental Services Cooperative Agreement Remediation Program Team (ESCA RP Team). 2008. Final Technical Information Paper, Phase II Seaside Munitions Response Area, Roadway Alignment and Utility Corridor (Pollution Report and Removal Action Activity Report), Former Fort Ord, Monterey County, California. September 26. (Fort Ord Administrative Record No. ESCA-0117)
- . 2011. Final Technical Information Paper, Phase II Seaside Munitions Response Area Outside Roadway Alignment and Utility Corridor (Pollution Report and Removal Action Activity Report), Former Fort Ord, Monterey County, California. March 25. (Fort Ord Administrative Record No. ESCA-0251B)
- . 2017a. Final Residential Protocol Implementation Technical Information Paper, Seaside Munitions Response Area, Former Fort Ord, Monterey County, California. March 29. (Fort Ord Administrative Record No. ESCA-0306C)
- . 2017b. Final Group 1 Remedial Investigation/Feasibility Study, Seaside Munitions Response Area and Parker Flats Munitions Response Area Phase II, Former Fort Ord, Monterey County, California. May 04. (Fort Ord Administrative Record No. ESCA-0318B)
- . 2017c. Final Supplemental Residential Protocol Implementation Technical Information Paper, Seaside Munitions Response Area, Former Fort Ord, Monterey County, California. December 12. (Fort Ord Administrative Record No. ESCA-0342B)
- United States Department of the Army (Army). 2008. Memorandum: Unexploded Ordnance (UXO) Construction Support for Monterey Peninsula Water Management District (MPWMD) Aquifer Storage and Recovery (ASR) Project (Santa Margarita Well), Former Fort Ord. July 16. (Fort Ord Administrative Record No. OE-0718)

## 6. ATTACHMENTS

Table 1 – List of Contacts

Figure 1 – Seaside Munitions Response Area

Figure 2 – Seaside MRA Reuse Plan

Figure 3 – Seaside MRA ASR Well Site Expansion and MPWS Project Site

Figure 4 – Seaside MRA ASR Well Site Expansion and MPWS Project Site Munitions Response Site Boundaries

Figure 5 – Seaside MRA ASR Well Site Expansion and MPWS Project Site Recovered MEC

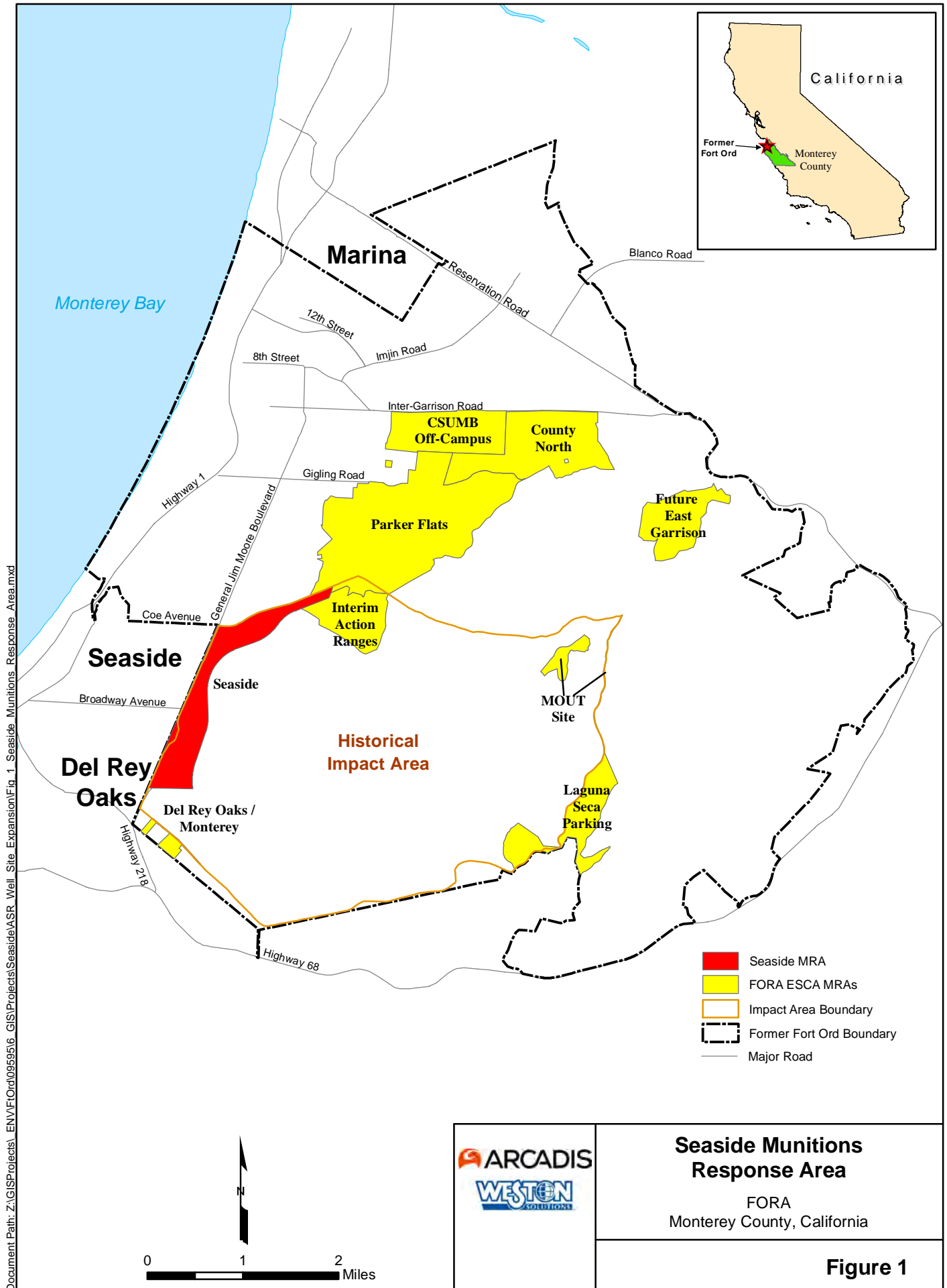
Figure 6 – Seaside MRA MPWS Project Site Recovered MEC

- A Project Site Grading and Soil Management Areas (as applicable)
- B On-Call Construction Support After-Action Report Template
- C Army MEC Incident Recording Form (<http://www.fodis.net/mec/public>)
- D FORA MEC Find Notification Form
- E FORA MEC Find Assessment Form
- F Regulatory Approval Letters

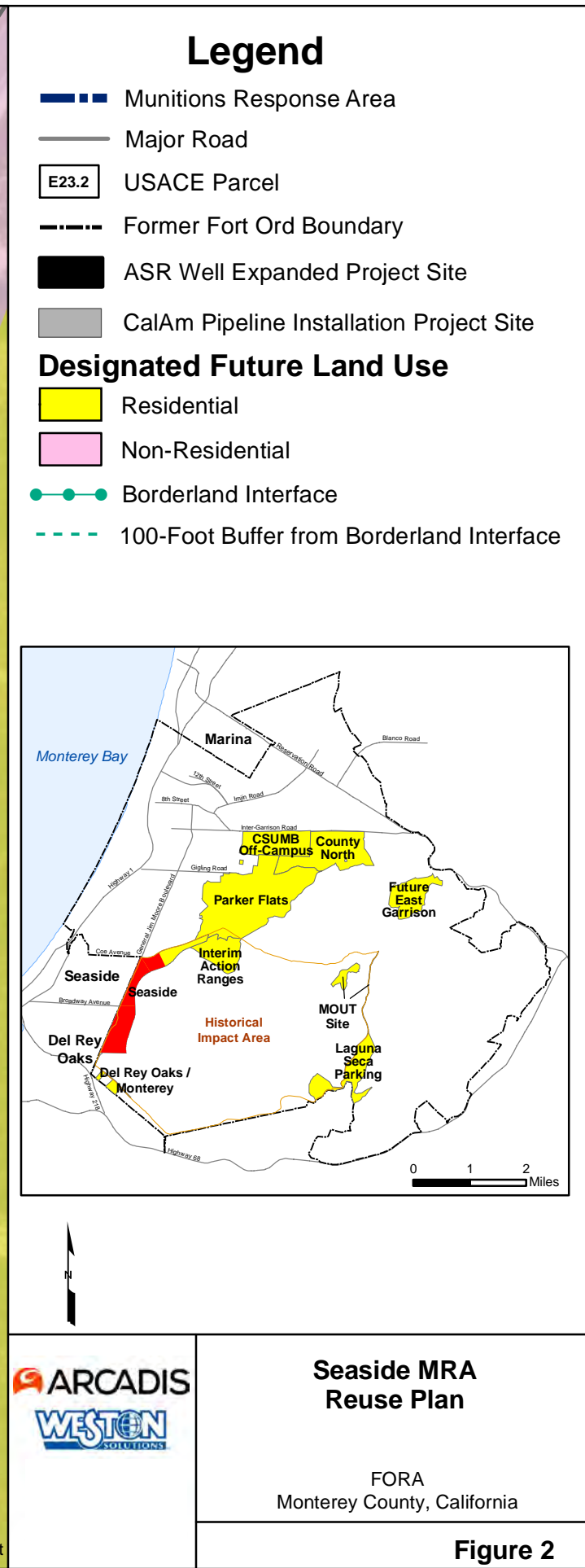
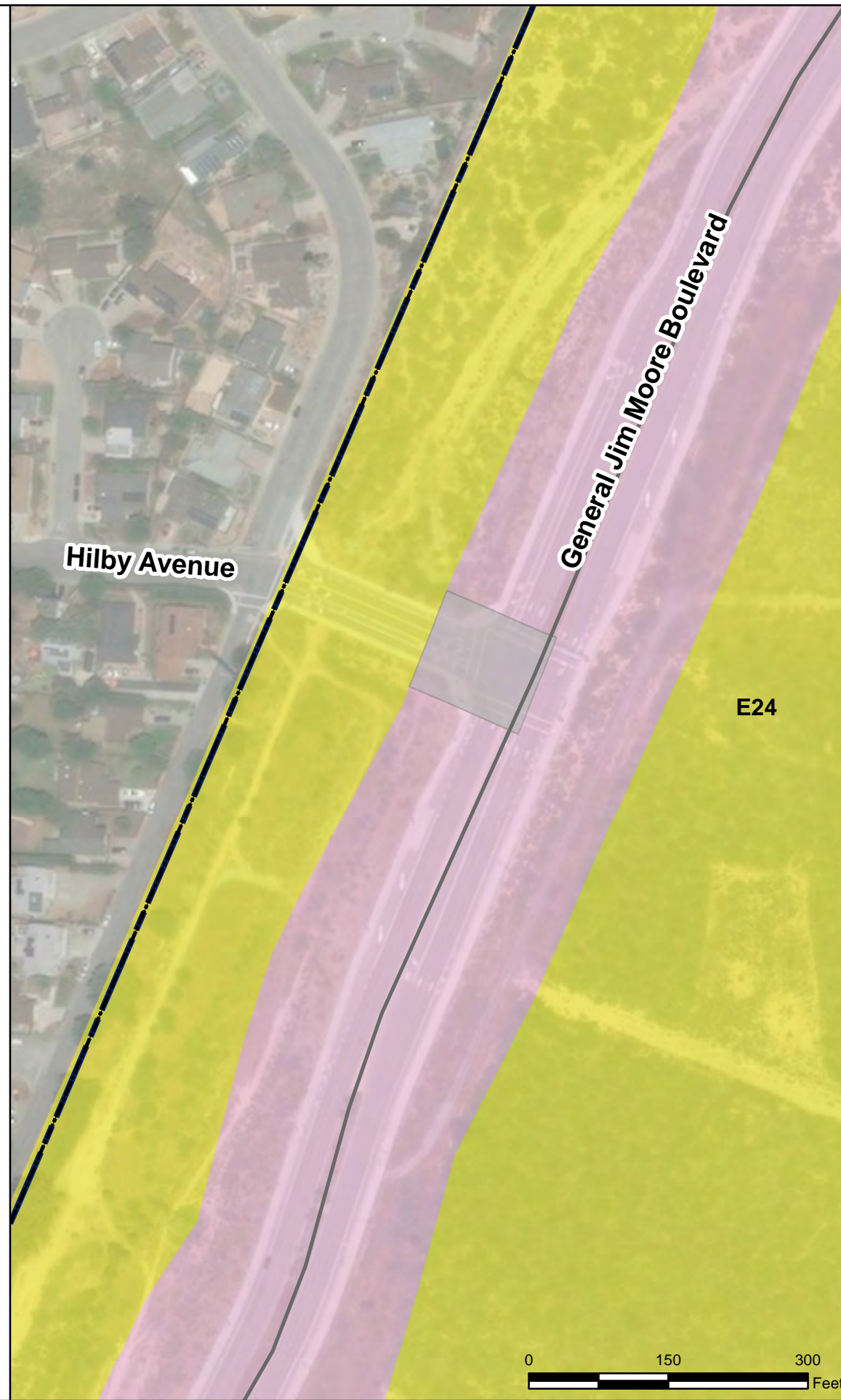
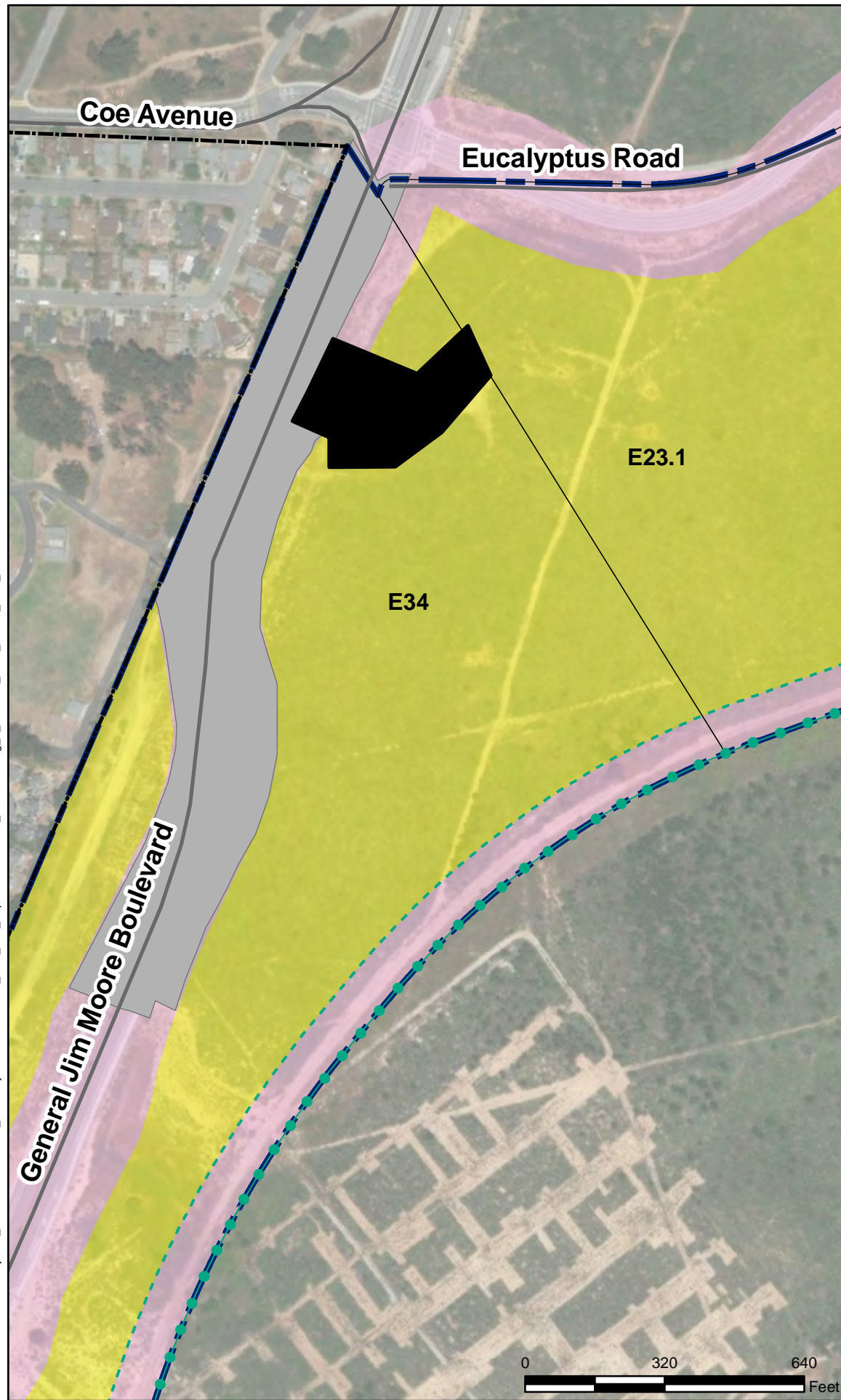
**Table 1**  
**List of Contacts**

Company		Position	Name	Phone Number
FORA (Land Owner)	Primary	FORA ESCA Program Manager (Land Owner Representative)	Stan Cook	(831) 883-3672 (office)
	Alternate	FORA ESCA Coordinator	Laura Vidaurri	(831) 293-4077 (cell)
MPWMD	Primary	Project Engineer	Steve Tanner	(831) 883-3672 (office)
	Alternate	Water Resources Engineer	Maureen Hamilton	(805) 883-2238
CalAm	Primary	Engineering Manager	Chris Cook, PE	(831) 658-5622 (office)
	Alternate	Vice President, Engineering	Ian Crooks	(831) 242-0191 (cell)
Arcadis	Primary	Certified Project Manager	Christopher Spill	(831) 646-3241 (office)
	Alternate	Task Manager	Noel Handley	(831) 277-2405 (cell)
Weston Solutions - UXO-Qualified Personnel Coordination	Primary	Project Manager	Linda Temple	(916) 568-4296 (office)
	Primary	UXO-Qualified Personnel (on-call)	TBD	(831) 236-7014 (cell)
MPWMD Construction Contractor Supervisor	Primary	On-Site Construction Supervisor	TBD	(510) 387-3765 (cell)
	Alternate	On-Site Construction Supervisor	TBD	(415) 432-6922 (office)
CalAm Construction Contractor Supervisor	Primary	On-Site Construction Supervisor	TBD	(831) 674-3075 (office)
	Alternate	On-Site Construction Supervisor	TBD	(256) 655-3478 (cell)
City of Seaside Police Department	Primary	Dispatch	NA	(831) 229-1668 (cell)
	Alternate	Emergency Hotline	NA	TBD (field office)
Travis Air Force Base	Primary	Explosive Ordnance Disposal (EOD)	NA	TBD (cell)
				TBD (field office)
Travis Air Force Base	Primary	Explosive Ordnance Disposal (EOD)	NA	TBD (cell)
				TBD (field office)



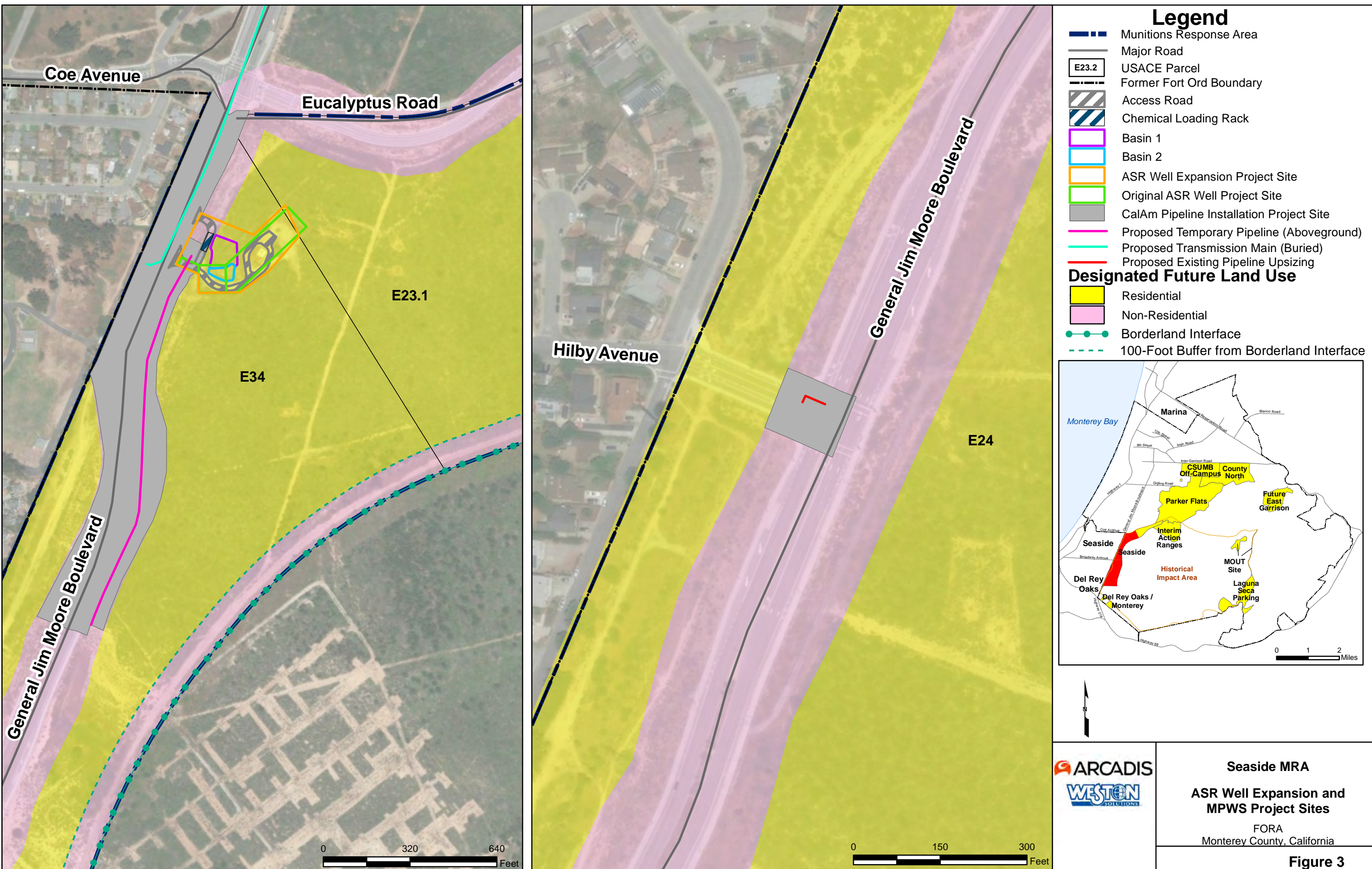






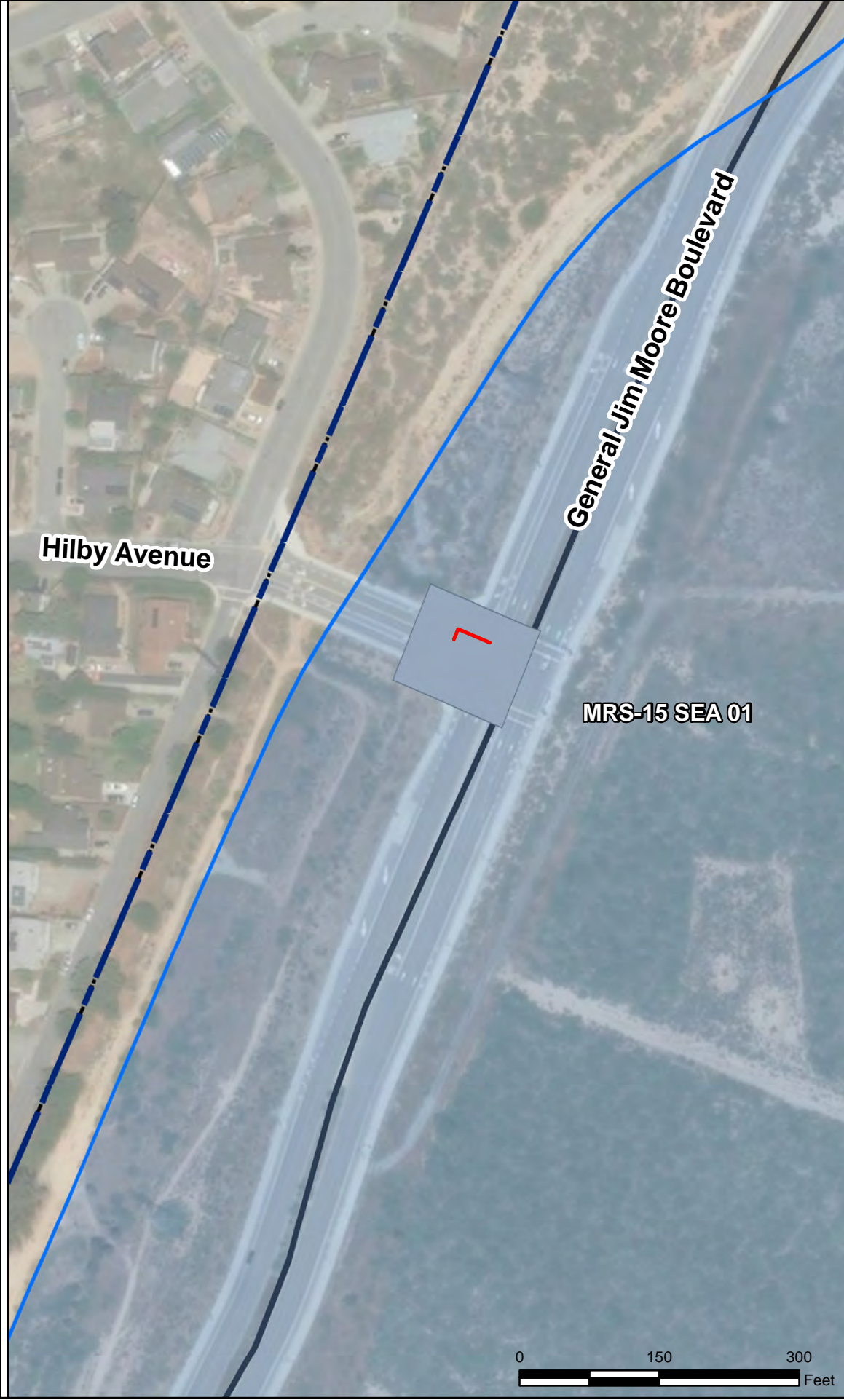
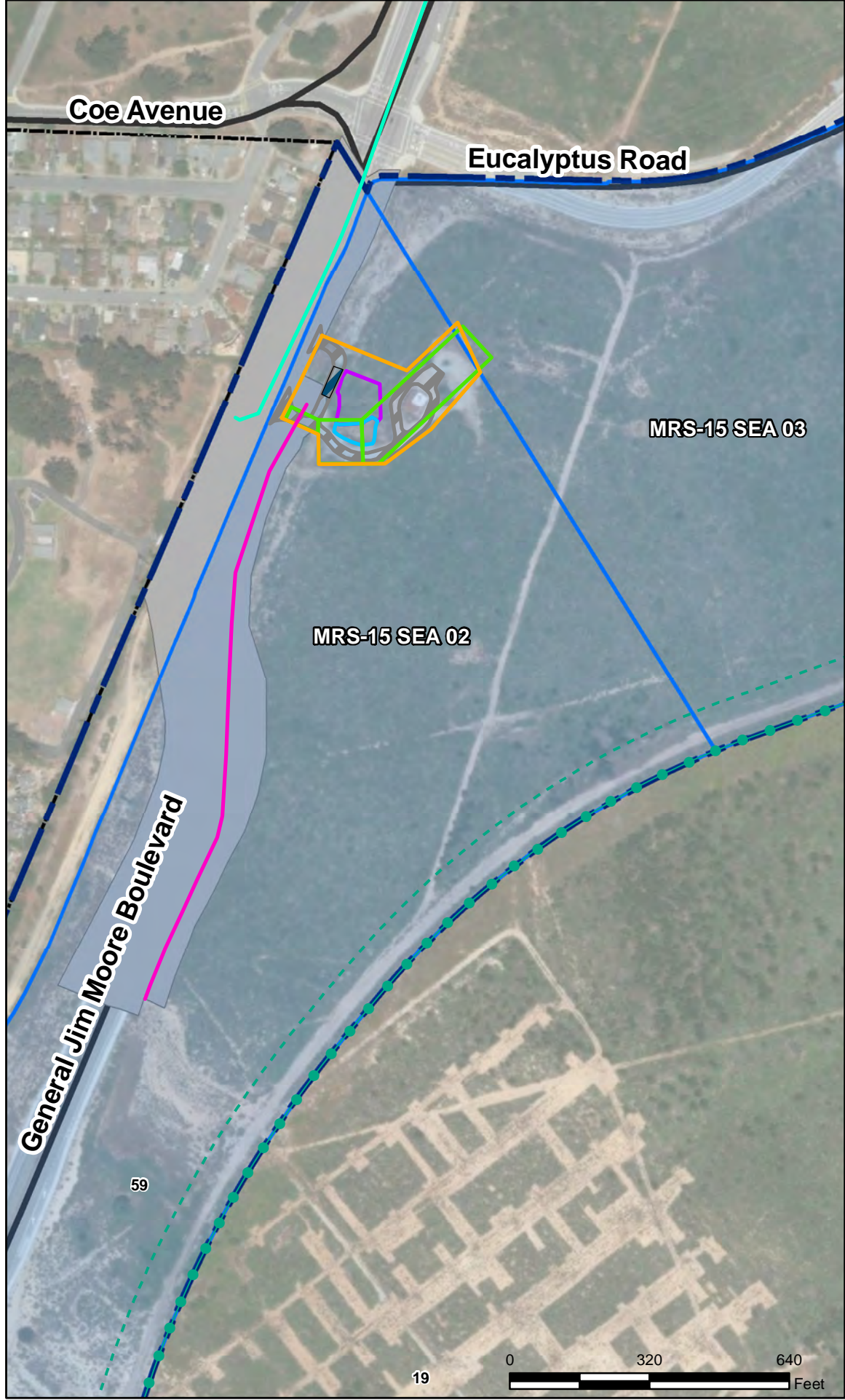


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Document Path: Z:\GIS\Projects\ENV\FortOrd\0959516\_gis\Projects\Seaside\ASR\_Well\_Site\_Expansion\Revised\_20180223\Fig\_4\_Seaside\_MRA\_ASR\_Well\_Site\_Expansion\_CalAm\_Pipeline\_Installation\_MRS\_Site\_Boundaries\_v2.mxd



### Legend

- Munitions Response Area
- MRS-15 SEA 01 Munitions Response Site
- Major Road
- Former Fort Ord Boundary
- Access Road
- Chemical Loading Rack
- Basin 1
- Basin 2
- ASR Well Expansion Project Site
- Original ASR Well Project Site
- CalAm Pipeline Installation Project Site
- Proposed Temporary Pipeline (Aboveground)
- Proposed Transmission Main (Buried)
- Proposed Existing Pipeline Upsizing
- Borderland Interface
- 100-Foot Buffer from Borderland Interface

#### Former Fort Ord Location Map

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**Seaside MRA**  
**ASR Well Expansion and**  
**MPWS Projects**  
**MRS Boundaries**  
FORA  
Monterey County, California

**Figure 4**



