

Technical Project Planning Memo:

Subject: Munitions Military Response Program (MMRP)
Documentation of Technical Project Planning
Concurrence for Remedial Investigation/Feasibility Study

Site: *Former Trabuco Bombing Range*, Rancho Santa Margarita, California,
FUDS J09CA020900

Contract: Contract Number W912PL-04-D-0024, Task Order 0005

This document is intended to record the conduct of Technical Project Planning (TPP) for the Former Trabuco Bombing Range site in Rancho Santa Margarita, California. The project team has concurred with the technical approach and munitions constituent sampling strategy (locations and analyses) as developed at the three TPP Meetings held at the City of Rancho Santa Margarita OEM Conference Room (on 27 June, 18 August, and 27 October 2005) and presented herein. This approach was developed based on available site information including the 1991 Inventory Project Report, Findings and Determination of Eligibility, Rancho Santa Margarita; 1993 Archive Search Report Findings for the former Plano Trabuco Target Area, Orange County, California; 2004 Action Memorandum, Time Critical Removal Action, Trabuco Creek Bikeway; 2005 Site Specific Removal Action Report, Time Critical Removal Action, Trabuco Creek Bikeway; 2005 Aerial Photography Interpretation, Trabuco Bombing and Rocket Range; and other pertinent documents and interviews.

The technical approach presented in this TPP Memorandum document is supported by details including meeting minutes, revised sample location maps, revised TPP Worksheets, and Conceptual Site Model.

For the *Trabuco Bombing Range* site the presence of Munitions and Explosives of Concern (MEC) is confirmed. Since site closure, multiple ordnance sweep efforts have been conducted by the military and U.S. Army Corps of Engineers (USACE)-contracted actions executed by contract UXO teams. Developers also have contributed to the ordnance clearance by removing and stockpiling ordnance and munitions debris during construction activities. A large portion of the former bombing range has been significantly disturbed and reworked over the years for the development of the City of Rancho Santa Margarita and California State Toll Road 241. Other portions of the former range and potential associated ordnance contamination still remain in undeveloped areas within the current O'Neill Regional Park. Due to the confirmed



presence of MEC, the ongoing and future development, and the lack of restrictions to public access to the remaining undisturbed areas, it was agreed by the project team that the RI approach for the **Former Trabuco Bombing Range** will proceed in a manner to aid the development of an anticipated Feasibility Study (FS) and Decision Document (DD).

To accomplish this objective, the project team has agreed that data collection efforts during the Remedial Investigation (RI) will focus on screening for munitions constituent (MC) contamination in soil in the undisturbed areas of O'Neill Regional Park. A total of twenty shallow soil samples (appropriate quality control or blow in place samples not included in the sample count) will be collected from site locations with bias toward locations where high concentrations of munitions have previously been encountered and areas where MC would be expected in relation to the former targets. The attached Proposed Analytical Parameters and Methods document lists the MC compounds to be analyzed. Soil sample locations are depicted on the attached site maps. All MC results will be fully documented in an RI Report for stakeholder review.

The geophysical field team, using an EM-61 MK 2, G858 magnetometer, and Schonstedt magnetometer, will conduct a formal analysis of the optimal method for detection of UXO-related material. Each of the selected instruments will be used to collect data over the geophysical prove-out (GPO) grid, and the results will be processed in a manner similar to the procedures that will be used for the clearance surveys to be completed under the RI. The GPO will be established by seeding a number of MEC objects—of the types that are expected to be found at the site—in an area that is relatively flat and vegetation-free.

The results of the GPO will provide direction for the geophysical field team regarding the appropriate instrument(s) to be used for the geophysical survey to be conducted under the RI. Under the RI, the geophysical field team will map approximately 1.9% of the 520 acre site. They will do this using a combination of meandering paths and transects, with one square grid placed around the Adobe Hut. The data gathered from the geophysical survey will be evaluated to determine if each identified anomaly meets the criteria of being a potential ordnance item or other target of interest.

The UXO team will excavate each of the selected target anomalies. All UXO items that can be moved to the explosives storage magazine will be transported within the park boundaries to the magazine for storage and destruction at a later date. Any item deemed inappropriate to move will be blown in place as soon as possible in accordance with the approved Work Plan (WP). Any debris containing explosive hazards will be handled in accordance with the approved WP. Munitions debris, range-related debris, and cultural debris may be stored in the same area, but will be kept in separate containers. All debris containers will be kept within the fenced explosive storage magazine compound in lockable containers.



The RI Technical Approach described above will not be modified without consultation with and the agreement of the project team identified below.

Name	Title	Organization
Mr. Larry Sievers	Project Manager	USACE, Los Angeles District
Mr. Omoruyi Patrick	Project Manager	Department of Toxic Substances Control (DTSC)
Mr. Daniel Cordero	Deputy Project Manager	DTSC
Mr. John Gannaway	Parks District Supervisor	Orange County Parks
Mr. Ron Slimm	Supervising Park Ranger, O'Neill Regional Park	Orange County Parks
Mr. Tom Wheeler	City Engineer	City of Rancho Santa Margarita
Ms. Joni Jorgensen-Risk	Project Manager	Innovative Technical Solutions, Inc. (ITSI)
Mr. Rogerio Leong	Technical Lead	ITSI
Mr. William Kelso	Project Manager	Parsons
Mr. Michael Short	OE Operations Manager	Parsons

