

**FINAL
COMMUNITY RELATIONS PLAN**

**MILITARY MUNITIONS RESPONSE PROGRAM
NATIONAL GUARD BUREAU
NON-DOD NON-OPERATIONAL DEFENSE SITES
WESTERN REGION REMEDIAL ACTIONS**

**LEONA HEIGHTS RIFLE RANGE, ALAMEDA COUNTY,
CALIFORNIA
(CAHQ-013-R-01)**

**Contract No.: W912DR-15-D-022
Delivery Order: W912DR18F0688**

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April 2019

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LIST OF ACRONYMS AND ABBREVIATIONS

AEDB-R	Army Environmental Database - Restoration
ARNG	Army National Guard Directorate
BEM	Buried Explosion Module
bgs	below ground surface
CA	California
CAARNG	California Army National Guard
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CRP	Community Relations Plan
DDESB	Department of Defense Explosives Safety Board
DMM	discarded military munitions
DoD	Department of Defense
DoDI	Department of Defense Instruction
DTSC	Department of Toxic Substances Control
EA	EA Engineering, Science, and Technology, Inc.
EBRPD	East Bay Regional Parks District
EM	Engineering Manual
FS	Feasibility Study
GIS	geographic information system
GPS	global positioning system
HOA	Homeowners Association
HRR	Historical Records Review
HRS	Hazard Ranking System
LUC	land use control
MC	munitions constituents
MD	munitions debris
MEC HA	Munitions and Explosives of Concern Hazard Assessment
MEC	munitions and explosives of concern
MMRP	Military Munitions Response Program
MPPEH	material potentially presenting an explosive hazard
MRA	Munitions Response Area
MRS	Munitions Response Site
MRSP	Munitions Response Site Prioritization Protocol
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFA	No Further Action
NMD	non-munitions debris

LIST OF ACRONYMS AND ABBREVIATIONS (CONT.)

NPL	National Priorities List
PA	Preliminary Assessment
PAO	Public Affairs Office
PP	Proposed Plan
RA	Remedial Action
RAB	Restoration Advisory Board
RD	Remedial Design
RI	Remedial Investigation
ROD	Record of Decision
ROSP	Regional Open Space Preserve
SAA	small arms ammunition
SI	Site Inspection
SUXOS	Senior Unexploded Ordnance Supervisor
TWG-HA	Technical Working Group – Hazard Assessment
U.S.	United States
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
UXO	unexploded ordnance
UXOQCS	Unexploded Ordnance Quality Control Specialist
UXOSO	Unexploded Ordnance Safety Officer
WESTON	Weston Solutions, Inc.

1.0 OVERVIEW OF THE COMMUNITY RELATIONS PLAN

The Army National Guard Directorate (ARNG) and the California Army National Guard (CAARNG) herein referred to as “the Army” have developed this Community Relations Plan (CRP) in preparation for community relations activities to be conducted during the Remedial Design (RD)/Remedial Action (RA) activities at the Leona Heights Rifle Range Munitions Response Site (MRS) located in Alameda County, California (CA). The Leona Heights Rifle Range MRS will be referenced as the “Leona Heights MRS, or the MRS” throughout the remainder of the document. The United States (U.S.) Army Corps of Engineers (USACE), Baltimore District contracted Weston Solutions, Inc. (WESTON®) to conduct the RD/RA work and assist with community relations activities.

This CRP was prepared utilizing the current guidelines published by the U.S. Environmental Protection Agency’s (USEPA) Superfund Community Involvement Handbook (USEPA 540-K-02-015, January 2016) and the U.S. Army Military Munitions Response Program’s (MMRP) Munitions Response Remedial Investigation/Feasibility Study Guidance (Final November 2009). The Department of Defense (DoD) established the MMRP to attain a better understanding of munitions response cleanup requirements and potential costs. These reference documents regarding community relations and the RD/RA process at munitions sites can be accessed via the Internet at the following websites:

- <https://semspub.epa.gov/work/HQ/100000070.pdf> – Superfund Community Involvement Handbook (USEPA 540-K-02-015, January 2016)
- https://www.aec.army.mil/application/files/8114/9512/9332/Guidance__MMRP_RIFS_2009.pdf – *Munitions Response Remedial Investigation/Feasibility Study Guidance (Final November 2009)*; and
- https://armypubs.army.mil/epubs/DR_pubs/DR_a/pdf/web/ARN6644_AR360-1_Admin_WEB_FINAL.pdf – *The Army Public Affairs Program (Army, 2011)*.

A copy of the U.S. Army MMRP’s Final Munitions Response Remedial Investigation/Feasibility Study Guidance will be available at the project information repository, located at the Eastmont Library in Oakland, CA (see Appendix C).

1.1 PURPOSE AND OBJECTIVES OF THIS COMMUNITY RELATIONS PLAN

The purpose of this document is to provide a framework on how information about the Leona Heights Rifle Range MRS decisions and community concerns will be exchanged. This framework will enhance communication between local residents, local community councils, the East Bay Regional Parks District (EBRPD), and the Army as the remediation progresses. All community relations activities will be conducted jointly with the Army Public Affairs Office (PAO).

The objective of the community relations program defined in this plan is to involve the public in activities and decisions related to the Leona Heights Rifle Range MRS while following the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process. The community relations program promotes two-way communication between members of the public and the Army.

1.2 ORGANIZATION OF THIS COMMUNITY RELATIONS PLAN

This CRP consists of the following sections:

- Section 1 – A summary of the objectives and contents of this CRP and an overview of the CERCLA program.
- Section 2 – A description and history of the Leona Heights Rifle Range MRS that will be addressed during the RD/RA.
- Section 3 – A profile of the community around the MRS and a discussion of issues and concerns of the community.
- Section 4 – A discussion of the community relations program defined by this plan.

This CRP includes the following appendices:

- Appendix A – Glossary
- Appendix B – Key Contacts
- Appendix C – Locations of established Administrative Record/Information Repository File

1.3 OVERVIEW OF THE ARMY MILITARY MUNITIONS PROGRAM REMEDIAL INVESTIGATION/FEASIBILITY STUDY PUBLIC RELATIONS GUIDANCE

The ARNG MMRP follows the process outlined in CERCLA and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The Army's program complements and expands existing CERCLA and NCP guidance; focusing on unique challenges associated with sites containing unexploded ordnance (UXO), discarded military munitions (DMM), munitions debris (MD), material potentially presenting an explosive hazard (MPPEH), munitions and explosives of concern (MEC), and munitions constituents (MC). A proactive approach to community concerns is an integral part of the MMRP; guidance advises personnel to use input from local stakeholders to adjust communication plans, public relations plans, and applicable environmental messages (Army, 2009). A potential avenue for community involvement is a Restoration Advisory Board (RAB), discussed in more detail in **Subsection 1.4** of this CRP.

The key message points of the MMRP Public Involvement Guidance (Army, 2009) are as follows:

- **Safety** – The Army is committed to performing an appropriate munitions response on those sites known or suspected to contain MEC and/or MC in a manner minimizing risk to the public, workers, and the environment.
- **Stewardship** – The Army is a good steward of the environment.
- **Readiness** – The Army must train as it fights and will fight as it is trained.
- **Sustainability** – The Army's long-term viability depends on balancing mission requirements worldwide with explosives safety and human health protections, as well as safeguards for the environment.

- **Expertise** – The Army will make use of the nation’s best available and appropriate technology to accurately assess MRSs and successfully complete required munitions response actions.
- **Partnership** – The Army will work with regulators, local community leaders, and members of the public to address concerns and ensure the safe performance of munitions response actions.
- **Local Perspective** – The Army will acknowledge and address significant local community concerns (e.g., health safety, environmental justice, economic issues, equity issues, and other policy issues).

The MMRP Public Involvement Guidance (Army, 2009) also suggests a number of communication tools and techniques that may be used as appropriate during the RD/RA process:

- Public meetings – At the discretion of the Army, information may be presented at a scheduled public meeting.
- Public availability sessions (poster stations) – A less formal type of public meeting where information is presented in poster form rather than in a presentation. Army officials and the public can interact, and questions can be asked and concerns discussed one-on-one.
- Information products – Printed materials, including fact sheets, newsletters, brochures, briefing charts, and annual reports, are developed by the Army and made available to the public, either through distribution, inclusion in the Administrative Record File, or hard copies at information repositories (such as public libraries).
- News releases – The Army may disseminate project-related articles and announcements to local/area news media. News releases are also stored in the Administrative Record File or information repository.
- Website – A website may be used to provide the public with up-to-date project information.
- Group presentations – Army officials and representatives may present briefings to community groups (such as a RAB, Technical Review Committee, homeowner associations, neighborhood boards and civic groups) during their regularly scheduled meetings.
- Information repositories – MMRP documents will be placed in the project information repository located at the Eastmont Branch of the Oakland Public Library, 7200 Bancroft Avenue in Oakland, CA.
- Media opportunities – These opportunities allow journalists to learn more about the site and obtain an in-depth understanding of the MMRP without the pressure of a deadline. Media opportunities could include site tours, editorial boards, and others.

Feedback from interactions with the public may be used to evaluate the project’s community relations program and make adjustments if deemed necessary.

1.4 OVERVIEW OF RESTORATION ADVISORY BOARDS

The RAB Rule (10 U.S. Code 2705(d)), sets out statutory requirements for establishment, characteristics, composition, and funding of RABs. In March 2007, the DoD issued a document entitled Restoration Advisory Board Rule Handbook (DoD, 2007) to supplement the RAB Rule. According to the Management Guidance for the Defense Environmental Restoration Program (DoD, 2001), only one RAB will be recognized per installation.

A RAB is a volunteer stakeholder group that addresses environmental cleanup issues at Army installations. RAB members discuss, evaluate, and exchange information through direct lines of communication between their members and installation decision makers. A RAB provides an opportunity for the community to participate regularly in the process and discuss cleanup decisions with decision makers. RAB meetings should be open to the public, and as such, can provide a scheduled opportunity for members of the public to share questions and concerns with the agencies involved in the investigation or cleanup.

RABs may discuss only environmental restoration activities and are not decision-making bodies. Examples of RAB activities may include the following.

- Review and comment on environmental restoration documents and activities.
- Provide information to the community.
- Receive input from the community.
- Obtain information regarding schedule, technical methods or approach, and status of environmental restoration activities.

WESTON ran a RAB Public Interest notice in Oakland Tribune on Friday, December 1, 2017. Based on the lack of response to the public interest notice (and prior notices), and the previous results of interviews with members of the community, there does not appear to be sufficient interest to warrant the formation of a RAB for the MRS at this time. However, WESTON will assess community interest every 24 months during the course of this work, as per the Restoration Advisory Board Rule Handbook, Office of Secretary of Defense, March 2007. Information regarding the duties and requirements of a RAB are provided in Appendix C.

1.5 OVERVIEW OF CERCLA PROGRAM

In 1980, the U.S. Congress enacted CERCLA, also known as Superfund. CERCLA authorizes the USEPA to investigate and respond to hazardous substance releases that may endanger public health and the environment. The law also established a \$1.6 billion fund to pay for the investigation and cleanup of sites when responsible parties are unable or unwilling to address contamination problems. Congress amended and reauthorized CERCLA in October 1986 as the Superfund Amendments and Reauthorization Act, increasing the size of the fund to about \$8.5 billion. Superfund sites are listed on the National Priorities List (NPL) upon completion of the Hazard Ranking System (HRS) screening, public solicitation of comments about the proposed site, and after all comments have been addressed.

It is important to note that the Leona Heights Rifle Range MRS is not on the NPL, and is not a Superfund site. However, the environmental studies and community relations program are being performed in accordance with the CERCLA program under the MMRP. Typically, at a Superfund site, USEPA conducts a series of processes leading up to the Remedial Investigation (RI) stage and the MMRP has followed these steps with certain exceptions as noted below:

Discovery – Sites may be discovered in a number of ways: hazardous substance release; citizens petition USEPA to investigate a site; or state and local governments may request USEPA to investigate a site. The Leona Heights Rifle Range was discovered during completion of the National Guard Bureau NDNODS Final State Inventory (EA Engineering, Science, and Technology, Inc [EA], 2009).

Preliminary Assessment (PA)/Site Inspection (SI) – During the PA, USEPA searches permits, titles, and other records to gather information about past activities, exposure pathways, and human and other biological targets at the site. The SI involves an investigation of site conditions. The Leona Heights Rifle Range SI was completed in 2012 as part of a Nationwide ARNG program (WESTON, 2012).

NPL – The site is considered for inclusion on the NPL, a list of the most serious sites identified for possible long-term cleanup. Inclusion is based on an HRS score and political recommendations. MRSs are not scored using the HRS system and are not typically added to the NPL, therefore, this system does not apply to Leona Heights Rifle Range.

RI/Feasibility Study (FS) – Determines the nature and extent of contamination. Assesses the treatability of site contamination and evaluates the potential performance and cost of treatment technologies. The Leona Heights Rifle Range RI and FS were completed in 2017 (WESTON, 2017a; WESTON, 2017b)

Proposed Plan (PP)/Record of Decision (ROD) – The PP and ROD explain which cleanup alternatives will be used at a site were issued for Leona Heights Rifle Range in 2018 (WESTON, 2018a; WESTON, 2018b)

RD/RA – Preparation and implementation of plans and specifications for acting on the ROD. The Leona Heights Rifle Range is currently at this RD/RA stage of work.

Long-Term Monitoring – Implementation of the five-year review plan and maintenance of land use controls (LUCs), if any.

Site Closeout – When required RDs/RAs have been completed (including installation of LUCs) and cleanup objectives are met at a site, the Army uses the term “response complete” to denote the remediation end date.

NPL Deletion – Remove a site from the list once cleanup actions are complete and cleanup goals are achieved. Not applicable at the Leona Heights Rifle Range, as this does not typically apply to MRSs.

More details about the Superfund process are available on-line at the following USEPA website: <http://www.epa.gov/superfund/cleanup/index.htm>. A glossary of terms is presented as **Appendix A**.

1.5.1 Remedial Design/Remedial Action

The RD involves development of detailed plans for site cleanup to meet the requirements of the ROD, and the RA involves actual construction or implementation phase of site cleanup.

The time to conduct an RD/RA varies from site to site. Some sites can easily take 18 to 24 months or more to complete an RD/RA; however, actual on-site work (RA) may last no longer than a few weeks to several months. The remainder of the time is spent on laboratory work and report preparation and review.

It is important to note that the MMRP's RA fieldwork for this MRS is scheduled to be completed during Fall 2019. Preparing, reviewing, and finalizing the RD plans and RA reports may require over a year for each plan or report. As the next step after the RD/RA phase completion, it is evaluated to ensure the requirements of ROD have been fulfilled.

1.5.2 Community Involvement Requirements

Specific community relations activities that must be performed in accordance with CERCLA are shown in **Table 1-1**. Additional community relations activities tailored to the distinctive needs of the site and specific community interests may also be implemented.

Table 1-1
Required Community Involvement Activities during the CERCLA Process

Technical Milestones	Required Public Involvement Activities
RD	<ul style="list-style-type: none">• Update information repository and Administrative Record• Prepare final design factsheet• Prepare RD (Quality Assurance Project Plan)• Publish public notice (announce RD/RA and information repository and Administrative Record file location)• Reevaluate public interest in forming a RAB• Munitions Response Site Prioritization Protocol (MRSP) notification and participation announcement with stakeholders and public.
RA	<ul style="list-style-type: none">• Update information repository and Administrative Record
RA Reporting	<ul style="list-style-type: none">• Update information repository and Administrative Record• Publish public notice (announce RA reports)• Revise CRP, if needed

2.0 SITE BACKGROUND

2.1 MUNITIONS RESPONSE SITE LOCATION AND SETTING

The Leona Heights Rifle Range MRS is located along Keller Avenue and Campus Drive in Sequoyah, approximately 7 miles southeast of Downtown Oakland, Alameda County, CA (**Figure 2-1**). The MRS encompasses a portion (33.04 acres) of the public 290 acre EBRPD Leona Canyon Regional Open Space Preserve (ROSP) and two residential areas (48.29 acres) consisting of condominium and townhouse complexes and single family residences.

Multiple CAARNG units utilized the Leona Heights Rifle Range MRS from 1913 until the mid to late 1930s for artillery and mortar practice, and small arms training. Beginning in 1913, the range was first used for artillery practice, with the small arms range being constructed in 1920. The range consisted of as many as five target berms at varying distances extending out to 1,000 yards. Small arms fire was directed toward a natural hillside that served as a backstop to the entire range. In 1942, portions of the range were developed as a hospital, which closed in 1993. Since then, the majority of the former range has been redeveloped into a light- to medium-density residential area. Because of the steep topography, the hillside that served as the backstop to the range remains undeveloped.

2.2 MUNITIONS RESPONSE SITE HISTORY AND INVESTIGATIONS

Previous investigation activities conducted at the Leona Heights Rifle Range MRS are summarized in **Table 2-1** and discussed in the text below. **Table 2-2** lists the total acreage for the Leona Heights Rifle Range Munitions Response Area (MRA) and MRSs through different phases of the CERCLA process. The remedy identified in the ROD for the Leona Heights Rifle Range – Developed Areas MRS (49.6 acres) is No Further Action (NFA).

2.2.1 Preliminary Assessment

EA conducted a Site Inventory (referred to as a PA) in 2009 to determine whether sites in California were eligible for inclusion in the MMRP. The PA report (EA, 2009) concluded that the 91.0-acre Leona Heights Rifle Range MRS met the MMRP eligibility requirements and recommended that the MRS be further investigated in an SI. The PA also indicated that munitions use at the MRS was limited to artillery, mortar, and small arms ammunitions.

2.2.2 Historical Records Review

During the Historical Records Review (HRR) (WESTON, 2011), records searches were performed to supplement information gathered during a survey of closed, transferred, and transferring military ranges, in order to facilitate decision-making processes determining next steps for the SI. The historical records research completed for the Leona Heights Rifle Range MRS included contacting the California State Library in Sacramento, CA; California Historical Society in San Francisco, CA; the Oakland Public Library; and various Internet Web sites.

Review of relevant records, including archived correspondence, news articles, and aerial photographs indicated that in addition to being utilized by CAARNG, the Leona Heights Rifle Range MRS was used for small arms practice by the Coast Artillery, high school cadets, and by the Rifle and Pistol Club of the California State Railroad Commission. No relevant records associated with any Army National Guard activities were located at the Oakland Public Library or the California Historical Society.

Although the original MRS boundary depicted in the PA was not changed, geographic information system (GIS) data was used to recalculate the MRS acreage from the PA. Based on this GIS measurement, the original 91.0-acre size of the MRS stated in the PA Report was revised to 81.33 acres. The nature of this discrepancy and the methodology used to calculate the acreage of the MRS in the PA report are unknown (WESTON, 2011).

2.2.3 Site Inspection

Field inspections were performed across the original Leona Heights Rifle Range MRS. The field inspections were completed in 2011 and included magnetometer-assisted visual surveys and the collection of nine soil samples at various locations in the MRS (**Figure 2-2**). The field investigation identified MD consisting of .30 caliber projectiles and a military-original 3-inch Stokes mortar. The mortar was disposed of by the Alameda County Sheriff's Office Explosive Ordnance Disposal Squad.

No MC was detected above USEPA Regional Screening Levels and the California Human Health Screening Levels. Therefore, the SI recommended further investigation of MEC and NFA for MC.

2.2.4 Remedial Investigation

The RI field activities were conducted from 07 June 2016 to 15 June 2016. The goal of the RI was to determine the nature and extent of MEC and MC and to evaluate the associated hazards and potential risks posed to human health and the environment on the 81.33-acre Leona Heights Rifle Range MRS. The characterization activities were also used to determine whether further action was required under the CERCLA process.

2.2.4.1 Munitions and Explosives of Concern Investigation and Results

Characterization of MEC employed during the RI at the Leona Heights Rifle Range MRS included analog transect surveys (**Figure 2-3**) to detect potential MEC in the surface and subsurface within accessible areas followed by intrusive investigation along transects at anomaly locations to determine the nature, type, and distribution of MEC and MD.

**Table 2-1
Study/Investigation Summary**

Study/Investigation	Date	Study/Investigation Summary
PA	2009	Review of records to inventory NDNODS sites in California. Identified the Leona Heights Rifle Range MRS and recommended it be investigated in an SI (EA, 2009).
SI Work Plan / HRR	2011	Review of historical records to further document historical and other known information for the MRS and to supplement the information developed during the PA (WESTON, 2011).
SI	2012	The purpose of the SI was to determine the presence or absence of MEC and MC at the MRS through the use of instrument-aided visual surveys and soil sampling. The SI identified MD at the MRS consisting of small arms debris (.30 caliber projectiles) and a 3-inch Stokes mortar. Additional visual finds included the remains of a pop-up targeting system and berms. No MEC were identified. Ten soil samples were collected but no MC was detected above screening levels (WESTON, 2012). The SI recommended NFA for MC but further action for MEC during the RI phase of the CERCLA process.
RI	2016	During the RI, 351 anomalies were investigated. Three MPPEH items (3-inch Stokes mortars) and one MD item (3-inch Stokes mortar) were identified. The three MPPEH items were demolished and determined to have been vented MD. Both pre- and post-detonation soil MC samples were collected and analyzed for explosives. No explosives were detected in the samples. It was recommended that the MRS be converted into an MRA and divided into two MRSs: Leona Heights Rifle Range – Leona Canyon ROSP MRS and Leona Heights Rifle Range – Developed Areas MRS. The RI Report recommended NFA for both MEC and MC at the Leona Heights Rifle Range – Developed Areas MRS and NFA for MC and further action for MEC at the Leona Heights Rifle Range – Leona Canyon ROSP MRS (WESTON, 2017a).
FS	2017	A FS was conducted for the Leona Heights Rifle Range – Leona Canyon ROSP MRS to determine a remedial alternative for MEC. Four alternatives were evaluated: 1) No Action; 2) LUCs; 3) LUCs and Focused Surface and Subsurface (24-Inches below ground surface [bgs]) Removal of MEC; and 4) LUCs and Complete Surface and Subsurface (24-Inches bgs) Removal of MEC. The alternatives were evaluated against the NCP criteria and against each other and the recommended alternative was Alternative 3: LUCs and Focused Surface and Subsurface (24-Inches bgs) Removal of MEC (WESTON, 2017b).
PP	2018	The PP presented the preferred remedial alternative to the public during a 35-day comment period from 05 January 2018 to 09 February 2018. The preferred remedial alternative is Alternative 3: LUCs and Focused Surface and Subsurface (24-inches bgs) Removal MEC. An announcement was placed in the <i>Oakland Tribune</i> and a copy of the PP was available at the Eastmont Library Branch in Oakland, CA. A public meeting was held on 10 January 2018. No comments were received during the public comment period (WESTON, 2018a).
ROD	2018	The ROD documented the preferred remedial alternative; LUCs and Focused Surface and Subsurface (24-inches bgs) Removal of MEC. A copy of the ROD is available at the Eastmont Branch of the Oakland Public Library in Oakland, CA (WESTON, 2018b).

**Table 2-2
Acreage Summary**

Study Investigation	MRS	Acreage
PA	Leona Heights Rifle Range MRS	91.0 acres
HRR	Leona Heights Rifle Range MRS	81.33 acres
SI	Leona Heights Rifle Range MRS	81.33 acres
RI	Leona Heights Rifle Range MRS	81.33 acres
FS	<u>Leona Heights Rifle Range MRA</u>	<u>81.33 acres</u>
	Leona Heights Rifle Range – Leona Canyon ROSP MRS	31.73 acres
	Leona Heights Rifle Range – Developed Areas MRS	49.60 acres
PP	<u>Leona Heights Rifle Range MRA</u>	<u>81.33 acres</u>
	Leona Heights Rifle Range – Leona Canyon ROSP MRS	31.73 acres
	Leona Heights Rifle Range – Developed Areas MRS	49.60 acres
ROD	<u>Leona Heights Rifle Range MRA</u>	<u>81.33 acres</u>
	Leona Heights Rifle Range – Leona Canyon ROSP MRS	31.73 acres
	Leona Heights Rifle Range – Developed Areas MRS	49.60 acres

Digital geophysical mapping surveys were not planned to be performed as part of this RI due to the steep topography and dense vegetation. Analog handheld White's MXT all-metal detectors with an effective detection depth of 24-inches were used during the RI transect survey and subsequent intrusive investigation. Each anomaly detected was physically marked (flagged) in the field and the location recorded with a global positioning system (GPS) for subsequent intrusive investigation. Anomaly locations, features, and other points of interest were recorded with a Trimble Geo 7X GPS.

Using a Geo 7X GPS, qualified UXO personnel navigated to the subsurface anomaly and MD locations identified during the SI to layout two mini-grids (15-feet by 10-feet) at the locations of subsurface anomalies and where MD, Practice 3-inch Stokes mortars, were found. The mini-grids were located in dense vegetation which dictated the layout. Additional transects and mini-grids were added after intrusive investigation along the proposed transects and mini-grids. In accordance with the approved RI Work Plan (WESTON, 2016), the additional transects and mini-grids were placed in accessible areas to delineate the MD. Transect and mini-grid locations and orientations are shown on **Figure 2-3**.

Qualified UXO personnel used hand tools to excavate and identify the 351 anomalies identified during the geophysical survey. Anomalies were categorized as MD, MPPEH, small arms ammunition (SAA), or non-munitions debris (NMD). Munitions-related anomalies included:

- MD – T02-023, 3-inch Stokes mortar
- MPPEH – T03-016, T03-034, and T03-035, 3-inch Stokes mortars

No munitions related “frag” (MD) was identified and the remaining anomalies were either SAA or NMD. The anomaly types and locations are presented on **Figure 2-3**.

Intentional detonation of MPPEH was performed in accordance with the USACE approved Explosives Site Plan, the Explosives Management Plan, and Demolition Operating Procedures (Section 3 and Appendix H of the RI Work Plan; WESTON, 2016). The intentional detonations followed the requirements of Engineering Manual (EM) 385-1-97 (USACE, 2013), applicable Bureau of Alcohol, Tobacco, Firearms, and Explosives requirements, and applicable federal, state, and local regulations. The inspection/certification of MPPEH was conducted in accordance with DoD Instruction (DoDI) 4140.62 (DoD, 2017) and EM 200-1-15 (USACE, 2015).

The three MPPEH 3-inch Stokes mortars found in transect T03 were determined safe to move by the Senior UXO Supervisor (SUXOS) and UXO Safety Officer (UXOSO) and relocated to an area on the western end of transect T02. The MPPEH items were secured in a double locked job box by the SUXOS who controlled access. The items were guarded 24 hours a day (visual surveillance) from the time of discovery to intentional detonation.

WESTON coordinated demolition operations with the USACE Project Manager, USACE Ordnance and Explosives Safety Specialist, ARNG, EBRPD-Police and Fire, and condominium residents beginning on 15 June 2016. Intentional detonation of the three MPPEH 3-inch Stokes Mortars was performed on 17 June 2016 using the Buried Explosion Module (BEM) per DoD Explosives Safety Board (DDESB) Technical Paper 16 Revision 5 (DDESB, 2016). The MPPEH staging and demolitions areas are presented on **Figure 2-3**.

Each MPPEH item was prepped with two perforators and ten feet of detonation cord. Per the BEM requirements, a hole was dug to approximately two feet bgs, the prepped MPPEH item was placed in the hole, the hole was backfilled, and approximately two feet of sandbags were placed on the hole. Each shot was dual primed with two 40-millisecond delay detonators and two lengths of lead line which ran to the firing point. The UXOSO and SUXOS ensured that the area was clear of unauthorized personnel prior to permitting attachment of the lead line to the detonators and prior to detonation. When the exclusion zone was secure, the lead line was initiated with a mushroom-style lead line initiator detonating the MPPEH item. After each detonation, the item was excavated and inspected by the SUXOS and verified by the UXO Quality Control Specialist (UXOQCS) to ensure that no explosive or fire hazards remained. Following excavation and inspection, the process was repeated for the remaining MPPEH items. All three items were classified as vented MD and identified as MD on the dig list because they did not contain high explosives with high order detonation. The demolition area remained secured until the SUXOS, in conjunction with the UXOSO, gave the “all clear”.

The MD was dual-inspected by the SUXOS and UXOQCS, certified as MDAS, and locked in the job box for transportation and processing via smelting.

2.2.4.2 Munitions Constituents Investigation and Results

At the completion of the SI, the Leona Heights Rifle Range MRS was recommended for NFA regarding MC and did not require additional MC sampling. MC samples would have been collected during the RI if an MC release was suspected due to field observations (e.g. burial sites, low-ordered or damaged MEC, or MC associated soil staining). MC samples were not collected during the RI based on field observations. However, biased discrete MC samples were collected

prior to and following intentional detonation of MPPEH. These discrete samples were collected from locations most likely to be impacted by MC and were used to confirm the presence of MC.

Both the pre- and post-detonation samples were collected from the bottom of the BEM hole prior to and following detonation. The samples were collected, prepared, shipped and analyzed for explosives (nitroaromatics and nitroamines) via USEPA Method 8330B. Analytical results for the samples did not indicate concentrations above the laboratory detection limit (i.e. non-detect) for any of the analytes.

2.2.4.3 RI Summary

Based on the results of the RI field activities, the following conclusions and recommendations were determined for the Leona Heights Rifle Range MRS:

- The Leona Heights Rifle Range MRS should be delineated into a MRA that is divided into two MRSs (**Figure 2-4**). The Leona Heights Rifle Range – Leona Canyon ROSP MRS (Army Environmental Database - Restoration [AEDB-R]: CAHQ-013-R-01) (31.73-acres) covers the portions of the MRA where the 3-inch Stokes mortars were found and is comprised of the majority of the Leona Canyon ROSP that falls within the MRA. The Leona Heights Rifle Range – Developed Areas MRS (AEDB-R: CAHQ-013-R-02) (49.60-acres) covers the remaining portions of the MRA where no MEC/MD or small arms items were found during the SI or RI.
- Four MD items and 245 small arms items were discovered on the Leona Heights Rifle Range MRS during the RI field activities.
- MC sampling activities indicated that no explosives were detected above screening levels during RI field activities.

The RI recommended that the Leona Heights Rifle Range – Developed Areas MRS go forward as NFA for MEC and MC as the results of the RI indicated that conditions are considered safe for current and future uses. The RI recommended that the Leona Heights Rifle Range – Leona Canyon ROSP MRS go forward as NFA for MC and further action for MEC in a FS. ARNG, USACE, and CAARNG concurred with the recommendations.

2.2.5 Feasibility Study

The purpose of the FS was to identify and evaluate RA alternatives for the Leona Heights Rifle Range – Leona Canyon ROSP MRS and the Leona Heights Rifle Range – Developed Areas MRS (WESTON, 2017b). The FS recommended NFA for MEC and MC and the Leona Heights Rifle Range – Developed Areas MRS. The FS included a detailed and comparative analysis based on criteria outlined in the NCP for the following four alternatives for the Leona Heights Rifle Range – Leona Canyon ROSP MRS:

- Alternative 1 – No Action;
- Alternative 2 – LUCs;
- Alternative 3 – LUCs and Focused Surface and Subsurface (24-Inches bgs) Removal of MEC; and

- Alternative 4 – LUCs and Complete Surface and Subsurface (24-Inches bgs) Removal of MEC.

Alternative 3 was presented as the preferred alternative.

2.2.6 Proposed Plan

The PP (WESTON, 2018a) presented the findings of the FS and the preferred alternative for addressing MEC at the Leona Heights Rifle Range – Leona Canyon ROSP MRS. The preferred alternative is Alternative 3: LUCs and Focused Surface and Subsurface (24-Inches bgs) Removal of MEC. NFA was presented in the PP as the preferred alternative for the Leona Heights Rifle Range – Developed Areas MRS. The PP was presented to the public and a 30 day comment period was implemented to accept public comments on the PP. No comments from the public were received and no legal or technical issues were identified.

2.2.7 Record of Decision

The ROD (WESTON, 2018b) presented the selected remedies for the Leona Heights Rifle Range – Leona Canyon ROSP MRS and the Leona Heights Rifle Range – Developed Areas MRS. The ARNG, in coordination with CA Department of Toxic Substances Control (DTSC), determined that the Leona Heights Rifle Range – Developed Areas MRS requires NFA for MEC and MC and that the Leona Heights Rifle Range – Leona Canyon ROSP MRS requires additional response actions. These include LUCs (warning signs, fencing, community awareness meeting, fact sheets, etc.) and focused surface and subsurface removal (24-inches bgs) of MEC.

2.3 SUMMARY OF SITE RISKS

2.3.1 Human Health and Ecological Risk Assessment

The purpose of a human health risk assessment is to document whether the Leona Heights Rifle Range – Leona Canyon ROSP MRS and Leona Heights Rifle Range – Developed Areas MRS conditions may pose a potential risk to current or future MRS receptors and to identify which, if any, MRS conditions need to be addressed further in the CERCLA process. Both pre- and post-detonation samples were collected from the Leona Heights Rifle Range MRS during the RI and analyzed for explosives. No explosives were detected above the laboratory detection limits. Therefore, a site-specific risk assessment was not required as there is no potential risk to human health from MC at the Leona Heights Rifle Range MRSs.

No critical or endangered species are known to be present at the Leona Heights Rifle Range MRSs (CA.gov, 2015) and no sensitive ecological habitat was observed during the SI and/or RI activities. Therefore, potential ecological exposure pathways are incomplete.

2.3.2 Munitions and Explosives of Concern Hazard Assessment

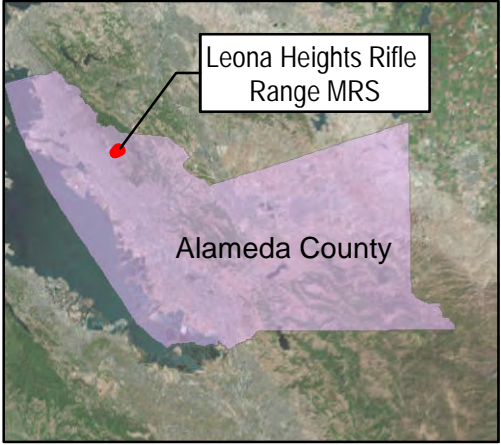
The purpose of the Munitions and Explosives of Concern Hazard Assessment (MEC HA), as described in the *Interim Munitions and Explosives of Concern Hazard Assessment Methodology*, (Technical Working Group – Hazard Assessment [TWG-HA], USEPA, 2008), is to support the hazard management decision-making process by analyzing site-specific information to assess

existing explosive hazards, evaluate hazard reductions associated with removal and remedial alternatives, and evaluate hazard reductions associated with land use activity decisions. The MEC HA is designed to be used at the end of an RI. The risk of exposure to MEC at the MRS is based on historical findings from the SI and RI. The following three components are used to evaluate the potential for explosive hazard incidents:

- Severity, which is the potential consequences of the effect on a human receptor should a MEC item detonate;
- Accessibility, which is the likelihood that a human receptor will be able to come in contact with a MEC item; and,
- Sensitivity, which is the likelihood that a human receptor will be able to interact with a MEC item such that it will detonate (TWG-HA, USEPA, 2008).

The Leona Heights Rifle Range – Leona Canyon ROSP MRS received a MEC HA score of 870 out of 1,000 points (hazard level category 1) for current land use activities at the MRS.

Scores were also generated for the alternatives screened in the FS for the Leona Heights Rifle Range – Leona Canyon ROSP MRS. Future activities were assumed to be the same as current activities. The score for Alternative 1: No Action is 870 (hazard level category 1). The score for Alternative 2: LUCs is 830 (hazard level category 2). The score for Alternative 3: LUCs and Focused Surface and Subsurface (24-Inches bgs) Removal of MEC is 505 (hazard level category 4). The score for Alternative 4: LUCs and Complete Surface and Subsurface (24-Inches bgs) Removal of MEC is 475 (hazard level category 4).



Legend

- Leona Heights Rifle Range MRS
- Road
- California State Boundary
- Alameda County

Acronyms:
MRS - Munitions Response Site

1 inch = 2 miles

Leona Heights Site Location Map

Leona Heights Rifle Range MRS
Community Relations Plan

Figure
2-1

1435 Garrison Street, Suite 100, Lakewood CO 80215

<small>DRAWN</small> BAYE	<small>DATE</small> 12/12/2018	<small>CONTRACT NO.</small> W912DR-15-D-022
<small>CHKD BY</small> MACMILS	<small>CHKD DATE</small> 12/12/2018	<small>DELIVERY ORDER NO.</small> W912DR18F0688

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Legend

- Leona Heights Rifle Range MRA
- EBRPD Leona Canyon Regional Open Space Preserve (33.04 acres)
- MC Sample Location
- .30 Caliber Round
- MD - 3-inch Stokes Mortar
- Sub-Surface Anomaly Location
- SI Visual Instrument Aided Survey Transects
- Firing Line
- Target Area
- Target System Trench

Acronyms:
MRA - Munitions Response Area

0 300 600 Feet

1 inch = 300 feet

Leona Heights
Site Investigation Results Map

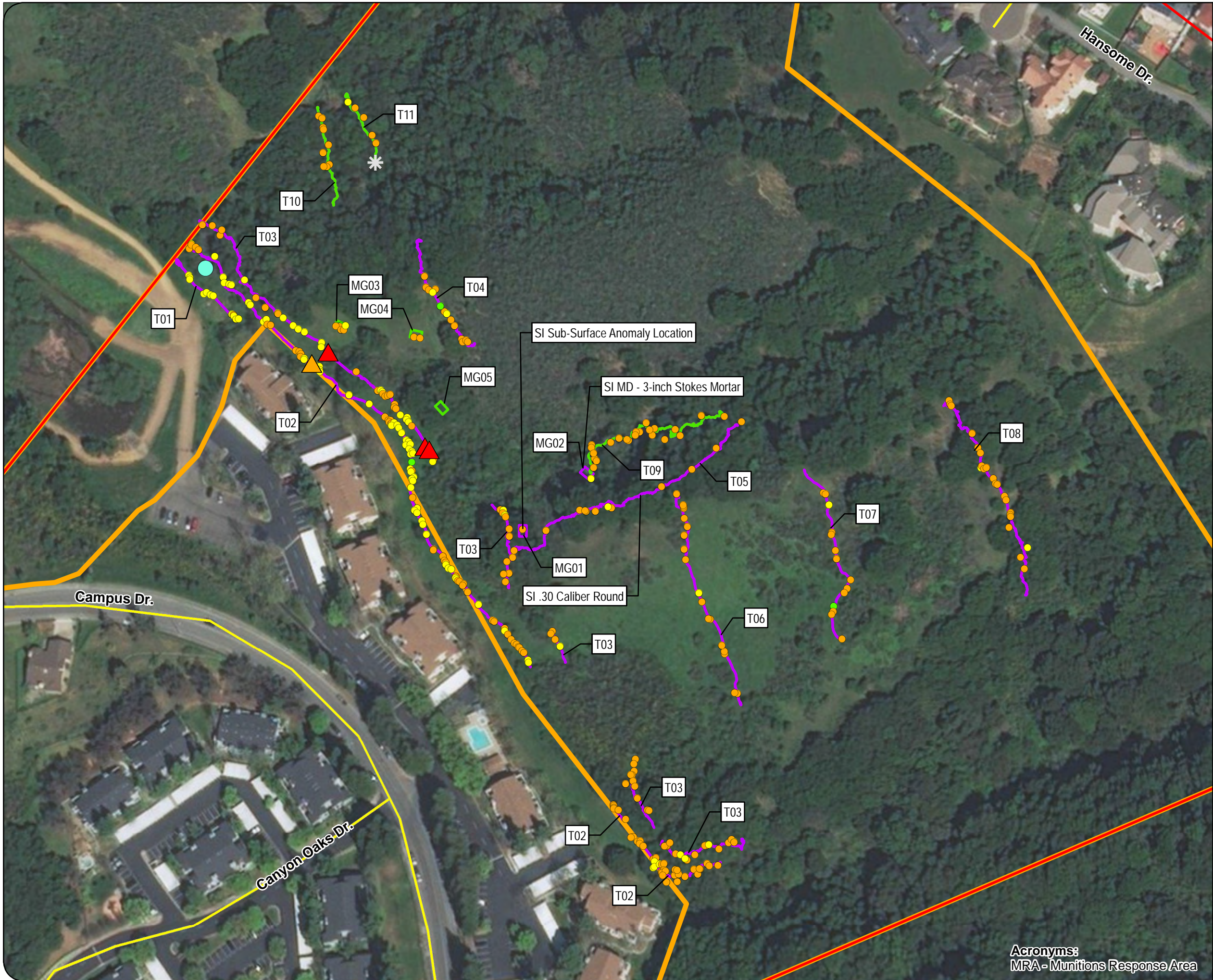
Leona Heights Rifle Range MRS
Community Relations Plan

Figure
2-2

WESTON SOLUTIONS
1435 Garrison Street, Suite 100, Lakewood CO 80215

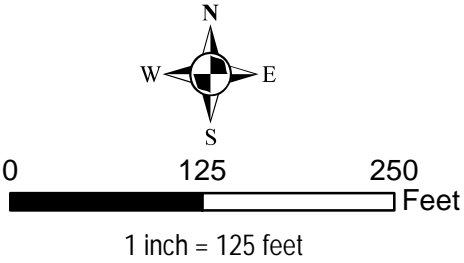
DRAWN BAYE	DATE 12/12/2018	CONTRACT NO. W912DR-15-D-022
CHKD BY MACMILS	CHKD DATE 12/12/2018	DELIVERY ORDER NO. W912DR18F0688

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Legend

- Leona Heights Rifle Range MRA
- EBRPD Leona Canyon Regional Open Space Preserve (33.04 acres)
- Staging Area
- Demolition Area
- MPPEH (n=3)
- MD (n=1)
- NMD (n=102)
- SAA (n=245)
- QC SEED (n=4)
- Actual Transects and Mini-Grids
- Additional Transects and Mini-Grids



Leona Heights Remedial Investigation Results Map

Leona Heights Rifle Range MRS Community Relations Plan	Figure 2-3
--------------------------------------------------------	------------

WESTON SOLUTIONS
1435 Garrison Street, Suite 100, Lakewood CO 80215

DRAWN BAYE	DATE 12/12/2018	CONTRACT NO. W912DR-15-D-022
CHKD BY MACMILS	CHKD DATE 12/12/2018	DELIVERY ORDER NO. W912DR18F0688

Acronyms:
MRA - Munitions Response Area

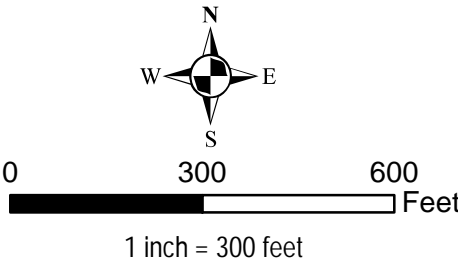
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Legend

- Leona Heights Rifle Range MRA
- EBRPD Leona Canyon Regional Open Space Preserve (33.04 acres)
- Leona Heights - Developed Area MRS No Further Action
- Road
- California State Boundary

Acronyms:
MRA - Munitions Response Area



Leona Heights Remedial Action Area

Leona Heights Rifle Range MRS
Community Relations Plan

Figure
2-4



1435 Garrison Street, Suite 100, Lakewood CO 80215

DRAWN BAYE	DATE 12/12/2018	CONTRACT NO. W912DR-15-D-022
CHKD BY MACMILS	CHKD DATE 12/12/2018	DELIVERY ORDER NO. W912DR18F0688

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3.0 COMMUNITY BACKGROUND

3.1 COMMUNITY PROFILE

According to the 2013-2017 U.S. Census 5-yr estimates, Alameda County has a population of 1,663,190, and covers an area of 739.02 square miles. The community nearest to the MRS within Alameda County is Oakland, which has an estimated population of 425,204. The Leona Heights Rifle Range MRS is located along Keller Avenue and Campus Drive in Sequoya, approximately 7 miles southeast of Oakland, Alameda County, CA (**Figure 2-1**).

3.1.1 Community Overview Statistics

Demographics according to the 2017 U.S. Census estimate for Alameda County and Oakland are shown in **Tables 3-1** through 3-5 (U.S. Census Bureau, 2017).

Table 3-1
Population, Race, and Age

	Alameda County	Oakland
Population	1,663,190	425,204
<i>Race (Percent of Population)</i>		
White	39.8%	34.2%
Hispanic or Latino	22.5%	28.4%
Black/African American	10.5%	23.4%
American Indian/Alaska Native	0.7%	0.7%
Asian	30.2%	15.5%
Native Hawaiian/Other Pacific Islander	0.8%	0.6%
Other	11.4%	17.9%
Median Age (years)	37.6	36.7

Notes: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates; Table DP05

Table 3-2
Employment Status

	Alameda County	Oakland
Employed (Civilian labor force)	64.3%	64.4%
Unemployed (Civilian labor force)	4.7%	6.9%
Employed (Armed Forces)	0.1%	0.1%
Not in labor force	32.5%	30.9%

Notes: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates; Population 16 years and over. Table B23025

**Table 3-3
Occupation**

	Alameda County	Oakland
Management, business, science, and arts	48.8%	45.0%
Service	16.5%	19.3%
Sales and office	18.9%	17.2%
Natural resources, construction, and maintenance	6.2%	7.3%
Production, transportation, and material moving	9.6%	11.2%

Notes: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates; Population 16 years and over. Table C2450

**Table 3-4
Educational Attainment**

	Alameda County	Oakland
Less than 9 th grade	5.8%	10.9%
9 th to 12 th grade, no diploma	6.2%	7.7%
High school graduate (includes equivalency)	18.0%	16.3%
Some college, no degree	17.5%	16.9%
Associate degree	6.1%	5.8%
Bachelor's degree	26.9%	24.5%
Graduate or professional degree	19.5%	17.9%

Notes: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates; Population 25 years and over. Table 15003

**Table 3-5
Income and House Value**

	Alameda County	Oakland
<i>Household Income</i>		
Less than \$10,000	4.1%	5.9%
\$10,000 to \$14,999	3.3%	6.2%
\$15,000 to \$24,999	5.9%	8.0%
\$25,000 to \$34,999	5.7%	7.3%
\$35,000 to \$49,999	7.9%	9.7%
\$50,000 to \$74,999	13.0%	15.1%
\$75,000 to \$99,999	11.5%	11.6%
\$100,000 to \$149,999	18.8%	15.3%
\$150,000 to \$199,999	12.0%	8.4%
\$200,000 or more	17.7%	12.4%
Median family income	\$96,296	\$70,577
<i>House Value (Owner-occupied units)</i>		
Less than \$10,000	0.5%	0.5%
\$10,000 to \$49,999	0.6%	0.5%
\$50,000 to \$99,999	0.9%	0.4%
\$100,000 to \$149,999	0.8%	0.5%
\$150,000 to \$199,999	0.7%	1.0%
\$200,000 to \$299,999	2.2%	4.8%
\$300,000 to \$499,999	12.5%	22.4%
\$500,000 to \$999,999	55.9%	47.8%
\$1,000,000 or more	25.9%	22.2%
Median	\$509,300	\$435,000

Notes: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates; in the past 12 months (in 2017 inflation adjusted dollars).
Tables S1901 & B25075

Approximately 53.7% of Oakland residents speak only English. Of the approximately 46.3% that speak a language other than English, 38.9% speak English less than “very well” (U.S. Census Bureau, 2017, Table 1601). Translation services are not expected to be necessary for community involvement activities associated with the Leona Heights Rifle Range MRS. However, a determination for the need for translation services will be made based on community interest.

3.2 CHRONOLOGY OF COMMUNITY INVOLVEMENT

Community involvement and outreach to date have included:

- 7 August 2011 – Public notice placed in the Oakland Tribune inviting the community to participate in the MRSP scoring during the SI.
- 8 April, 2016 – Public notice placed in the Oakland Tribune soliciting interest in forming a RAB and identifying the Administrative Record and Information Repository. No interest was received.
- April 2016 – Community interviews via teleconference with EBRPD (Information supervisor, Fire and Police).
- 13 April 2016 – Teleconference with the Ridgemont at Skyline Condominiums homeowners association (HOA) board of directors. The Army introduced key personnel, presented the history of the Leona Heights Rifle Range MRS, discussed the proposed fieldwork including temporary evacuations and trailhead closure during intrusive work, and answered questions.
- 28 April 2016 – Open forum presentation to EBRPD, Ridgemont HOA and interested community. The Army introduced key personnel, presented the history of the Leona Heights Rifle Range MRS, discussed the proposed fieldwork including temporary evacuations and trailhead closure during intrusive work, and answered questions.
- 1 December 2017 – Public notice placed in the Oakland Tribune soliciting interest in forming a RAB. No interest was received.
- 05 January 2018 to 09 February 2018 – 35-day public comment period on the PP for NFA at the Leona Heights Rifle Range – Developed Areas MRS and Focused Surface and Subsurface (to 24-inches bgs) Removal of MEC for the Leona Heights Rifle Range – Leona Canyon ROSP MRS. No comments were received during the public comment period.

A public notice will be placed in the Oakland Tribune soliciting interest in forming a RAB and announcement of RA fieldwork prior to the start of RA fieldwork.

4.0 COMMUNITY RELATIONS PROGRAM

Public information objectives and activities have been developed to encourage public awareness and understanding of the investigation, potential remediation, and site closure activities at the Leona Heights Rifle Range MRS. The overall goal of a community relations program is to promote two-way communication between residents and the Army, and to provide opportunities for meaningful and active involvement by the community during environmental activities. A successful program will set a framework for community stakeholders to ask questions, receive information, and provide input. To be effective, the community relations program must be formulated according to the community's need for information, and its interest and willingness to participate in the community relations program during the environmental processes. The community relations program communication tools and techniques are presented in the following sections.

Information products for public distribution, such as fact sheets, newsletters, brochures, and briefing charts, will be developed by WESTON under the direction of the Army.

4.1 KEEP THE PUBLIC INFORMED AND UP-TO-DATE

4.1.1 Designate Points of Contact for the Project

Objective – Provide primary contact(s) for the public to communicate with the Army; and to ensure prompt, accurate, and consistent responses and information dissemination about the MRS (Appendix B).

Method – The Army maintains a PAO to communicate military affairs with the public and the news media. The PAO will be informed of the technical schedule and procedures, investigation results, and any occurrence out of the ordinary for the MRS.

The PAO is the contact for the public and the news media, and will be responsible for responding to public and news media inquiries. As needed, the Army and WESTON technical personnel will be available to assist in explaining environmental processes and possible future environmental studies, activities, and actions for the MRS.

Timing – The PAO will be available to the public prior to site work. Information will be provided to the public on an as-needed basis.

4.1.2 Maintain Contact with Key Local Officials and Residents

Objective – The objective is to improve awareness and understanding by the community of the environmental activities at the MRS. By actively identifying and assessing public perception of the work being done by the Army and the contractor, WESTON, potential misunderstandings and misperceptions can be corrected in a timely manner.

Method – WESTON will inform key local officials and residents of upcoming environmental activities, solicit their perceptions, and introduce them to essential personnel. It is essential that

key stakeholders be regularly and fully informed of the activities, findings, and developments at the sites.

Timing – WESTON will organize public meetings and/or regular updates (as required) in advance of key efforts or milestones to keep local officials and residents apprised of ongoing activities.

4.1.3 Establish and Maintain an Information Repository and Administrative Record File

Objective – Provide a convenient location where residents can go to read and photocopy and/or print official technical documents and other pertinent information about environmental studies and activities at the MRS.

Method – The information repository is a reference collection of site information, including the work plans, health and safety plans, guidance documents, reports, fact sheets, RAB information, and other site-specific information. The Information Repository will contain electronic files only. The Administrative Record File contains the documents used to make the decision about the selection of a RA. Documents in the Administrative Record File will include, but are not limited to, the SI, RI, FS, PP, and ROD. The Administrative Record File will have only hard copies. The information repository and Administrative Record File will be accessible to the physically challenged, will have photocopier facilities, and will be available to the public at the times listed below.

The Army and the California DTSC will maintain Administrative Record Files at their respective offices along with a point of contact in case the public requests to view project files.

Timing – The hard copy Administrative Record File will be established at the CAARNG located at:

California Army National Guard
10620 Mather Blvd
Mather, CA 95655
Hours of operation
Monday – Friday
10 a.m. – 4 p.m.

Phone: (916) 369-4388

The Information Repository will be located at the Eastmont branch of the Oakland Public

Library

Eastmont Branch
7200 Bancroft, Ste 211
Oakland, CA 94605
Hours of operation
Monday: 11:30am - 7:00pm
Tuesday – Friday: 10:00am - 5:30pm
Saturday: 12:00pm – 5:30pm
Sunday: Closed

Phone: (510) 615-5726

Website: <http://oaklandlibrary.org/locations/eastmont-branch>

Electronic files will be available for download at the following website:

<http://www.westonsolutions.com/leona-heights/>

4.1.4 Prepare and Publish Public Notice of Availability of the Information Repository and Administrative Record File

Objective – Announce to the public the availability of the Information Repository and Administrative Record File in a local newspaper of general circulation (NCP Title 40 of the Code of Federal Regulations [40 CFR] 300.815(a)).

Method – The newspaper advertisement or legal notice will be published in the local newspaper of general circulation called the Oakland Tribune.

Timing – The newspaper advertisements or legal notice will be published before RA fieldwork begins and when completion reports (post-fieldwork) are available.

4.1.5 Prepare and Issue News Releases

Objective – Inform the public-at-large of technical accomplishments at the MRS (as needed).

Method – Prepared statements will be released to local media to announce site activities, as coordinated and approved by the PAO and the EBRPD Public Affairs Department. The news releases will be placed in the information repository and on the website.

Timing – A news release will be prepared and issued at the completion of the RA (if required).

4.1.6 Prepare and Distribute Fact Sheets

Objective – Provide local officials, community leaders, residents, and other interested parties with current, accurate, easy-to-read, and easy-to-understand information about environmental activities at the MRS.

Method – Fact sheets will summarize technical milestones and technical reports, describe conclusions and recommendations, and present an overview of the upcoming environmental activities. In addition, copies of the fact sheet will be placed in the information repositories and administrative record files.

Timing – WESTON, in coordination with the PAO, will prepare a fact sheet for distribution upon completion of the RA.

4.1.7 Establish Project Mailing Lists

Objective – Facilitate the distribution of site-specific information via direct mail and email to people who need or want to be kept informed about environmental activities.

Method – Develop project mailing lists of interested persons and update the list from the sign-in sheets of attendees at public meetings.

Timing – The PAO will review the draft mailing list prior to distribution of each mailing of printed materials, for example, fact sheets and public meeting notices.

4.2 PROVIDE OPPORTUNITIES FOR COMMUNITY INVOLVEMENT

4.2.1 Consider Forming a Restoration Advisory Board

Objective – To provide local residents with a meaningful way to become involved and to provide the Army and WESTON personnel with a viable means of learning citizens' concerns, perceptions, ideas, and information on the area.

Method – The public's level of interest to form a RAB for this MRS will be assessed every two years by the Army.

Timing – Prior to the beginning of the RA field work, the Army may solicit input from residents and local officials to ascertain the need for a community group.

4.2.2 Provide Opportunity for a Public Meeting/Open House

Objective – Provide an opportunity for a public meeting/open house to distribute information to the community regarding environmental activities at the MRS and address community questions, concerns, ideas, and comments.

Method – A public meeting may be held at a location in the surrounding community, if interest is indicated. The Army will schedule, prepare for, and participate in all announced public meetings. The format of public meetings may be the traditional presentation style, an open house, or a workshop. Organizers of the public meeting will provide at least two weeks advance notice to the public before each meeting. Site tours for the public are not contemplated at this time.

Timing – An opportunity for a public meeting or open house will be held prior to RA fieldwork and completion of the RA reporting (if requested).

4.2.3 Establish a Project-Specific Website

Objective – Electronically provide information to the community regarding environmental activities at the MRS and maintain an electronic version of the administrative record file and information repository (Appendix C).

Method – Information on the MRS will be added to the established website (Appendix C).

Timing – The website will be updated at a minimum upon completion of the RD and RA field work. The Army will determine if more frequent website updates are warranted.

5.0 REFERENCES

- CA.gov., 2015. 'Geoportal'. N.p., 2015. Web. 25 June 2015.
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WESTON, 2018a. *Proposed Plan, Leona Heights Rifle Range (CAHQ-013-R-01), Munitions Response Site, Alameda County, California. February.*

WESTON, 2018b. *Final Record of Decision, MMRP Munitions Response Services, National Guard Bureau, Leona Heights Rifle Range Leona Canyon ROSP (CAHQ-013-R-01), Leona Heights Rifle Range Developed Areas (CAHQ-013-R-02), Alameda County, California. November.*

APPENDIX A

GLOSSARY

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Term	Definition/Meaning
Administrative Record File	The body of documents that forms the basis for the selection of a particular response at a site. Documents that are included are relevant documents that were relied upon in selecting the response action as well as relevant documents that were considered but were ultimately rejected.
Community Relations Plan (CRP)	The CRP serves as the framework to establish a successful information exchange with the public during the environmental restoration process. The CRP follows guidelines set forth under Comprehensive Environmental Response, Compensation, and Liability Act and Superfund Amendments and Reauthorization Act. Each plan must be tailored to fit the individual site and situation. The CRP is not a static document and should be revised to reflect the development and progress of actions at the project.
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)	Congress enacted CERCLA, commonly known as Superfund, on December 11, 1980. This law created a tax on the chemical and petroleum industries and provided broad federal authority to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment.
Discarded Military Munitions (DMM)	Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of, consistent with applicable environmental laws and regulations.
Feasibility Study (FS)	The FS follows the Remedial Investigation. During the FS, the Remedial Investigation data are analyzed and remedial alternatives are identified. The FS serves as the mechanism for the development, screening, and detailed evaluation of alternative remedial actions.
Information Repository	A repository, generally located at libraries or other publicly accessible locations in or near the community affected by an environmental project, which contains accurate and up-to-date documents reflecting the ongoing environmental restoration activities.
Military Munitions Response Program (MMRP)	The United States Congress established the MMRP under the Defense Environmental Restoration Program to address unexploded ordnance, discarded military munitions, and munitions constituents located on current and former defense sites. MMRP eligible sites include other than operational ranges where unexploded ordnance, discarded military munitions, or munitions constituents are known or suspected. Properties classified as operational military ranges, permitted munitions disposal facilities, or operating munitions storage facilities are not eligible for the MMRP.
Munitions and Explosives of Concern (MEC)	This term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks, means unexploded ordnance, discarded military munitions, or munitions constituents (e.g., explosives) that are present in high enough concentrations to pose an explosive hazard.
Munitions Constituents (MC)	Any materials originating from unexploded ordnance, discarded military munitions, or other military munitions, including explosive and non-explosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions.
Munitions Response Action	Response actions, including investigation, removal actions, and remedial actions to address the explosives, human health, or environmental risks presented by unexploded ordnance, discarded military munitions, or munitions constituents or to support a determination that no removal or remedial action is required.
Munitions Response Site (MRS)	A discrete location within a Munitions Response Area that is known to require a munitions response.

Term	Definition/Meaning
Operational Range	A range that is under the jurisdiction, custody, or control of the Secretary of Defense and that is used for range activities, or although not currently being used for range activities, that is still considered by the Secretary to be a range and has not been put to a new use that is incompatible with range activities. Also includes: “military range”, “active range”, and “inactive range” as those terms are defined in 40 Code of Federal Regulations (CFR) 266.201.
Ordnance	Explosives, chemicals, pyrotechnics, and similar stores. Examples of ordnance are bombs, guns and ammunition, flares, smoke, or napalm.
Proposed Plan (PP)	The PP is a supplement of the Remedial Investigation/Feasibility Study and provides the public with the cleanup alternatives considered, the preferred alternative that meets the requirements of CERCLA, and an opportunity for the public to comment on the alternatives and participate in the selection of the remedial action.
Record of Decision (ROD)	The ROD is a public document that explains which alternative will be implemented to clean up an environmental impacted site. The ROD is created from information generated during the remedial investigation/feasibility study.
Remedial Action (RA)	An action consistent with the permanent remedy taken in the event of a release or a threatened release of a hazardous substance into the environment, to prevent or minimize the release of hazardous substances so that they do not migrate to cause substantial danger to present or future public health, welfare or the environment.
Remedial Design (RD)	A phase of remedial action that follows the Remedial Investigation/Feasibility Study and includes development of engineering drawings and specification for a site cleanup.
Remedial Investigation (RI)	An in-depth study, designed to gather the data necessary to determine the nature and extent of known contamination at a site, assess risk to human health and the environment, and establish criteria for cleaning up the site.
Responsiveness Summary	A formal written summary and response by the lead agency to public questions and comments. A responsiveness summary is prepared following a public meeting and public comment period about a Proposed Plan. The responsiveness summary may list and respond to each question, or summarize and respond to questions in categories.
Superfund	The commonly used term that describes the federal legislation authorizing the U.S. Environmental Protection Agency to investigate and respond to the release or threatened release of hazardous substances to the environment. The Superfund program outlines specific steps and actions for conducting a response to a release. The official term for Superfund is the Comprehensive Environmental Response, Compensation, and Liability Act. In 1986, Superfund was reauthorized as the Superfund Amendments and Reauthorization Act.
Superfund Site	A Superfund site is an uncontrolled or abandoned place where hazardous waste is located, possibly affecting local ecosystems or people. Sites are listed on the National Priorities List upon completion of Hazard Ranking System screening, public solicitation of comments about the proposed site, and after all comments have been addressed.
Transects	Lines for ecological measurements; a strip of ground along which ecological measurements are made at regular intervals.
Unexploded Ordnance (UXO)	Military munitions that have been primed, fuzed, armed, or otherwise prepared for action; have been fired, dropped, launched, projected, or placed in manner that constitutes a hazard to operations, installation, personnel, or material; and remain unexploded either by malfunction, design, or any other cause.

APPENDIX B

KEY CONTACTS

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Name	Title/ Project Function	Contact Information	
		Address	Phone/Email
California Army National Guard			
John C. Oberg, Col (CA)	Director of Environmental Programs	California Army National Guard 3900 Roseville Rd. North Highlands, CA 95660-5707	(916) 854-1489 (office) John.C.Oberg.nfg@mail.mil
Army National Guard Directorate			
Walt Gee	Lead Project Manager	ARNG-ILE-C 111 South George Mason Drive Arlington, VA 22204	(703) 607-7980 (office) (703) 607-8329 (fax) Walter.F.Gee.ctr@mail.mil
Reuben Sendejas	Project Manager	California Army National Guard 10620 Mather Blvd Mather, CA 95655	(916) 369-4388 (office) Reuben.R.Sendejas.civ@mail.mil
United States Army Corps of Engineers - Sacramento			
Jim Lukasko	Project Manager	USACE - Sacramento District 1325 J Street Sacramento, CA 95814-2922	(916) 557-5392 (office) James.J.Lukasko@usace.army.mil
Wayne Davis	Contracting Officer's Representative	USACE - Baltimore District 2 Hopkins Plaza, Room 09-F-05 Baltimore, MD 21201	(410) 9623506 (office) Gary.R.Krongard@usace.army.mil
California Department of Toxic Substances Control			
Roman Racca	Project Manager	Cal EPA/Department of Toxic Substances Control 8800 Cal Center Dr. Sacramento, CA 95826	(916) 255-6407 (office) Roman.Racca@dtsc.ca.gov
Weston Solutions, Inc.			
Mark Bell	Program Manager	1435 Garrison Street Suite 100 Lakewood, CO 80215	(303) 729-6153 (office) Mark.Bell@westonsolutions.com
Tim Trego, P.E	Project Manager	1435 Garrison Street Suite 100 Lakewood, CO 80215	(210) 248-2408 (office) Tim.Trego@westonsolutions.com
Shawn MacMillan	Senior Geoscientist	841 Bishop Street Suite 2301 Honolulu, HI 96813	(808) 275-2901 (office) (808) 585-7378 (fax) Shawn.Macmillan@westonsolutions.com

Federal Elected Officials			
Dianne Feinstein	U.S. Senator	One Post Street, Suite 2450 San Francisco, CA 94104	Phone: (415) 393-0707 Fax: (415) 393-0710 www.feinstein.senate.gov/
Kamala Harris	U.S. Senator	333 Bush Street, Suite 3225 San Francisco, CA 94104	Phone: (415) 981-9369 Fax: (202) 224-0454 www.harris.senate.gov/
Barbra Lee	U.S. Representative	1301 Clay Street, Ste. 1000-N Oakland, CA 94612	Phone: (510) 763-0370 Fax: (510) 763-6538 www.lee.house.gov/
State Elected Officials			
Gavin Newsom	Governor	State Capitol, Suite 1173 Sacramento, CA 95814	Phone: (916) 445-2841 Fax: (916) 558-3160 www.gov.ca.gov/
Nancy Skinner	CA State Senator District 9	State Capitol, Room 5094 Sacramento, CA 95814	Phone: (916) 651-4009 Fax: (916) 651-4909 http://sd09.senate.ca.gov/
Rob Bonta	CA House of Representatives District 18	State Capitol, PO Box 942849 Sacramento, CA 94249-0018	Phone: (916) 319-2018 Fax: (916) 319-2118 http://asmcd.org/members/a18/
Alameda County Officials			
Melissa Wilk	Auditor/Controller	1221 Oak Street, Room 249 Oakland, CA 94612	(510) 272-6565 (office)
County Board of Supervisors		1221 Oak Street, #536 Oakland, CA 94612	(510) 272-6691 (District 1 office)
Oakland City Officials			
Libby Schaaf	Mayor	1 Frank H. Ogawa Plaza, 3 rd Floor Oakland, CA 94612	Phone: (510) 238-3141 Fax: (510) 238-4731 officeofthemayor@oaklandnet.com
Sabrina Landreth	City Administrator	1 Frank H. Ogawa Plaza, 3 rd Floor Oakland, CA 94612	Phone: (510) 238-3301 Fax: (510) 238-2223 cityadministratorsoffice@oaklandca.gov
Oakland Police Department		455 7 th Street Oakland, CA 94607	(510) 238-3455 (office) or 911 for emergencies
Oakland Fire Department		150 Frank H. Ogawa Plaza, Suite 3354 Oakland, CA 94612	(510) 238-3856 (office) or 911 for emergencies

Leona Heights Contacts			
Suzie Garcia	Association Manager	SLPM Property Management 575 Dutton Ave. San Leandro, CA 94577	(510) 569-0722 x118 (office) (510) 569-0923 (fax) condos4@slpm.com
Dan Sykes	Park Unit Manager	East Bay Regional Parks District 2950 Peralta Oaks Court P.O. Box 5381 Oakland, CA 94605-0381	(510) 544-3128 dsykes@ebparks.org
Janet Gomes		East Bay Regional Parks District 2950 Peralta Oaks Court P.O. Box 5381 Oakland, CA 94605-0381	(510) 690-6675 jgomes@ebparks.org
Dave Mason	Public Affairs Department	East Bay Regional Parks District 2950 Peralta Oaks Court P.O. Box 5381 Oakland, CA 94605-0381	(510) 544-2217 dmason@ebparks.org
News Media			
Oakland Tribune		1970 Broadway, Suite 100 Oakland, CA 94612	Phone: (510) 208-6300 http://www.insidebayarea.com/oakland-tribune
KPFA Public Radio		1929 Martin Luther King Jr Way Berkeley, California 94704	(510) 848-6767 (office) https://kpfa.org/
KQED Public Radio		2601 Mariposa Street San Francisco, CA 94110	(415) 864-2000 http://www.kqed.org/

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APPENDIX C

LOCATIONS OF ESTABLISHED ADMINISTRATIVE RECORD FILE/INFORMATION REPOSITORY

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Administrative Record File

California Army National Guard
10620 Mather Blvd
Mather, CA 95655
Hours of operation
Monday – Friday
10 a.m. – 4 p.m.

Phone: (916) 369-4388

Information Repository

The following website will contain project related documents:

<http://www.westonsolutions.com/leona-heights/>

Eastmont Library Branch

7200 Bancroft, Ste 211
Oakland, CA 94605
Hours of operation
Monday: 11:30am - 7:00pm
Tuesday: 10:00am - 5:30pm
Wednesday: 10:00am - 5:30pm
Thursday: 10:00am - 5:30pm
Friday: 12:00pm - 5:30pm

Phone: (510) 615-5726

Website: <http://oaklandlibrary.org/locations/eastmont-branch>

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APPENDIX D

STAKEHOLDER COMMENTS

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Comments for the							
Stakeholder Draft Community Relations Plan Leona Heights Rifle Range (CAHQ-013-R-01) NDNODS West Region Remedial Action MRSS Contract No.: W912DR-15-D-0022 Delivery Order No. W912DR18F0688							
Comment Number	Commenter	Page(s)	Section	Line(s)	Comment	Response By	Response
TECHNICAL COMMENTS							
1					None.		
EDITORIAL COMMENTS							
1	JG	1-1	Purpose and Objectives	32	Suggest adding "East Bay Regional Park District" to list of parties. Our multi-disciplinary staff work in different departments, which may each be involved in reviewing different aspects of the potential future actions at Leona Canyon O.S. These include staff from the EBRPD Public Safety (Police and Fire), Public Affairs, Park Operations, Stewardship, and Interpretive and Recreation Services Departments.	LL	Concur - EBRPD has been added to the list of parties.
2	DS/JG	4-1	4.1.2	29	We'd like to clarify that the proposed actions stated in the 2018 ROD, to notify the public of the potential dangers of ammunition debris, are still in effect, even though they are not specifically noted in the "Community Relations Plan." These include: educational signs to be posted along the boundary of the former range (with USACOE contact info. in case of questions, and pictures of potential ordnance); along with fencing and gates as proposed in the ROD.	LL	Concur - The proposed actions stated in the 2018 ROD to notify the public of the potential dangers of munitions debris will be addressed in the Work Plan, also referred to as the Uniform Federal Policy for Quality Assurance Project Plan (UFP-QAPP), which EBRPD will be sent for review. No changes have been made to the CRP for this comment.
3	DS/JG	4-2	4.1.2	2	All public notices (e.g., regarding public meetings, necessary trail closures, etc.) should be posted at all 4 entrances to the Leona Canyon Open Space, and provided in digital form to EBRPD to post on our website.	LL	Concur - Public notices will be addressed in the UFP-QAPP and will include the information requested. No changes have been made to the CRP for this comment.
4	JG	4-2	4.1.2	4	Suggest that all public meeting notices be distributed and posted at least 1 week in advance of meeting.	LL	Concur - Public notices will be addressed in the UFP-QAPP. Public notices will be posted 30 days prior to public meetings. No changes have been made to the CRP for this comment.
5	JG	4-3	4.1.5	16	Please allow review of press releases by EBRPD, Public Affairs Department (Dave Mason, phone 510-544-2217; dmason@ebparks.org) prior to release to the media.	LL	Concur - The EBRPD Public Affairs Department has been added to the text. Additionally, Dave Mason has been added to Appendix.
End of comments.							
COMMENTS PROVIDED BY							
Initials	Name	Department/Organization	Email Address			Phone	
DS	Dan Sykes	EBRPD	DSykes@ebparks.org			510-544-3128	
JG	Janet Gomes	EBRPD	jgomes@ebparks.org			510-690-6676	

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Lugo (Kapelanczyk), Lara

From: Dan Sykes <DSykes@ebparks.org>
Sent: Monday, April 8, 2019 9:57 AM
To: Trego, Tim
Cc: Janet Gomes; MacMillan, Shawn; Lukasko, James J CIV USARMY CESPCK (US); Gee, Walter F (Walt) II CTR (US); Sendejas, Reuben R CIV NG NG J4 (US); Lugo (Kapelanczyk), Lara
Subject: RE: Leona Heights MRS Stakeholder Draft Community Relations Plan (CRP)

**** External Email ****

Tim: I have reviewed the final CRP and the responses to our comments. We have no further comments. Thank you.



Dan Sykes
Parkland Unit Manager | Parkland Unit
East Bay Regional Park District
7901 Redwood Road, Oakland, CA 94619
T: 510-544-3128
DSykes@ebparks.org | www.ebparks.org

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From: Trego, Tim <Tim.Trego@WestonSolutions.com>
Sent: Wednesday, April 3, 2019 9:19 AM
To: Dan Sykes <DSykes@ebparks.org>
Cc: Janet Gomes <JGomes@ebparks.org>; MacMillan, Shawn <Shawn.MacMillan@WestonSolutions.com>; Lukasko, James J CIV USARMY CESPCK (US) <James.J.Lukasko@usace.army.mil>; Gee, Walter F (Walt) II CTR (US) <walter.f.gee.ctr@mail.mil>; Sendejas, Reuben R CIV NG NG J4 (US) <reuben.r.sendejas.civ@mail.mil>; Lugo (Kapelanczyk), Lara <Lara.Kapelanczyk@WestonSolutions.com>; Trego, Tim <Tim.Trego@WestonSolutions.com>
Subject: RE: Leona Heights MRS Stakeholder Draft Community Relations Plan (CRP)

Dan,

Good morning.

Attached are responses to the comments that you provided on the Leona Heights MRS Stakeholder Draft Community Relations Plan (CRP) for your review and approval. Respectfully, I would like to request your review and approval on or before 10 April 2019. If you need more time please let me know.

I have also attached a red-line version of the CRP to facilitate your review.

Let me know if you have any questions.

Take care,

Timothy A. Trego, P.E. | Senior Project Manager



Weston Solutions, Inc.

1435 Garrison Street, Suite 100

Lakewood, CO 80215

Office: (303) 729-6107 Internal Ext. 1107

Cell: (210) 606-7441

Fax: (303) 729-6101

From: Dan Sykes [<mailto:DSykes@ebparks.org>]
Sent: Thursday, March 7, 2019 3:50 PM
To: Trego, Tim <Tim.Trego@WestonSolutions.com>
Cc: Janet Gomes <JGomes@ebparks.org>
Subject: RE: Leona Heights MRS Stakeholder Draft Community Relations Plan (CRP)

**** External Email ****

Mr. Trego:

We have completed our review of the draft CRP, and our comments are attached. Thank you for the opportunity to comment.



Dan Sykes

Parkland Unit Manager | Parkland Unit

East Bay Regional Park District

7901 Redwood Road, Oakland, CA 94619

T: 510-544-3128

DSykes@ebparks.org | www.ebparks.org

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From: Trego, Tim <Tim.Trego@WestonSolutions.com>
Sent: Friday, February 8, 2019 1:40 PM
To: Racca, Roman@DTSC <Roman.Racca@dtsc.ca.gov>; Dan Sykes <DSykes@ebparks.org>; condos4@slpm.com
Cc: Lukasko, James J CIV USARMY CESP (US) <James.J.Lukasko@usace.army.mil>; Sendejas, Reuben R CIV NG NG J4 (US) <reuben.r.sendejas.civ@mail.mil>; Gee, Walter F (Walt) II CTR (US) <walter.f.gee.ctr@mail.mil>; Trego, Tim <Tim.Trego@WestonSolutions.com>; Lugo (Kapelanczyk), Lara <Lara.Kapelanczyk@WestonSolutions.com>; MacMillan, Shawn <Shawn.MacMillan@WestonSolutions.com>
Subject: Leona Heights MRS Stakeholder Draft Community Relations Plan (CRP)

Roman/Dan/Suzie,

Good afternoon.

Each of you should receive 1 hard copy and 1 CD of the Leona Heights MRS Stakeholder Draft CRP for your review and comments by 12 February 2019. Comments are respectfully requested on or before 12 March 2019.

Attached is the cover letter and excel spreadsheet if you have any comments.

Let me know if you have any questions regarding this submission and have a great weekend.

Timothy A. Trego, P.E. | Senior Project Manager



Weston Solutions, Inc.

1435 Garrison Street, Suite 100

Lakewood, CO 80215

Office: (303) 729-6107 Internal Ext. 1107

Cell: (210) 606-7441

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Comments for the						
<p align="center"> Stakeholder Draft Community Relations Plan Leona Heights Rifle Range (CAHQ-013-R-01) NDNODS West Region Remedial Action MRSSs Contract No.: W912DR-15-D-0022 Delivery Order No. W912DR18F0688 </p>						
Comment Number	Commenter	Page(s)	Section	Line(s)	Comment	Response By
TECHNICAL COMMENTS						
1	RR				None.	
EDITORIAL COMMENTS						
1	RR				None.	
COMMENTS PROVIDED BY						
Initials	Name	Department/Organization	Email Address			Phone
RR	Roman Rocca	CA DTSC	Roman.Racca@dtsc.ca.gov			916-255-6407

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Comments for the							
<p align="center"> Stakeholder Draft Community Relations Plan Leona Heights Rifle Range (CAHQ-013-R-01) NDNODS West Region Remedial Action MRSs Contract No.: W912DR-15-D-0022 Delivery Order No. W912DR18F0688 </p>							
Comment Number	Commenter	Page(s)	Section	Line(s)	Comment	Response By	Response
TECHNICAL COMMENTS							
1	RHB				None.		
EDITORIAL COMMENTS							
1	RHB				None.		
COMMENTS PROVIDED BY							
Initials	Name	Department/Organization	Email Address				Phone
RHB	Ridgmont HOA Board						

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