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PUBLIC INVOLVEMENT PLAN ADDENDUM

**FINAL
PUBLIC INVOLVEMENT PLAN ADDENDUM
FOR THE TIME CRITICAL REMOVAL ACTION AT
THE
ROCKET RIDGE AREA**



**Ravenna Army Ammunition Plant (RVAAP)
Ravenna, Ohio**

Contract No. W912QR-09-P-0213

Submitted to



**U.S. Army Corps of Engineers, Louisville
600 Dr. Martin Luther King, Jr. Place
Louisville, KY 40202**

Submitted by



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May 7, 2010

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For
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Ravenna, Ohio**

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Prepared for:

The United States Army Corp of Engineers, Louisville District

Prepared by:

PIKA International, Inc.

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1.0 OVERVIEW OF PUBLIC INVOLVEMENT PLAN

1.1 Overview of the Public Involvement Plan

The U.S. Army Corps of Engineers, Louisville District has written this Public Involvement Plan (PIP) to facilitate communication between the community surrounding Ravenna, Ohio and the Ravenna Army Ammunition Plant (RVAAP) during implementation of the Time Critical Removal Action (TCRA) at the RVAAP Rocket Ridge Area (RRA) of Demolition Area #2 (ODA2). This PIP has been developed to tier under and supplement the 2003 Ravenna Army Ammunition Plant Community Relations Plan. This plan identifies issues of community concern regarding the TCRA at the RVAAP Rocket Ridge site and serves as a guide for public involvement goals and objectives.

Federal agencies develop community relations programs to be consistent with the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) Section 113(k)(2), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). It is the policy of the Department of Defense to involve the local community in the environmental restoration process. These requirements are the basis for more comprehensive and effective community relations activities. By identifying the public's concerns, the Army is able to fashion a response that more effectively addresses the community's needs.

The plan addresses how the public will be informed and involved in the investigation and site activities for the RVAAP. Included in the plan will be:

- Public Involvement Goals and Objectives
- Site Location, Description, Ownership and History
- Community Background and Profile
- Proposed Public Involvement Program

This information is based on research of the community, records of USACE activities and from interview with key stakeholders.

The USACE Louisville District will be forthright, responsive, clear and proactive in their communications with stakeholders, who include members of the general public, elected officials, interest groups, and the media.

1.2 Public Involvement Goals and Objectives

It is the USACE's objective to establish an information flow with these stakeholders and involve them in suitable public involvement activities; increase public awareness of the program and its activities; lessen any misunderstanding about environmental problems and potential hazards; and facilitate a two-way communication with the stakeholders and the community at large to demonstrate the ability of the USACE's Louisville District to perform its mission in an effective and efficient manner.

The objectives of the Army's public involvement efforts include:

- Facilitate two-way communications between the community and the Corps' project delivery team;
- Inform the community of the environmental progress at the former RVAAP;
- Involve the community in the process, so they may provide knowledgeable comments; and
- Develop and maintain relationships with media to report accurate, thorough information about the former RVAAP, the environmental investigation and clean up.

2.0 PROPERTY DESCRIPTION

2.1 RVAAP Site Location, Description, and History

When the RVAAP Installation Restoration Program (IRP) began in 1989, the RVAAP was identified as a 21,419-acre installation. The property boundary was resurveyed by the Ohio Army National Guard (OHARNG) over a two-year period (2002 and 2003), and the actual total acreage of the property was found to be 21,683 acres. As of February 2006, a total of 20,403 acres have been transferred to the National Guard Bureau (NGB) and subsequently licensed to the OHARNG for use as a military training site known as Camp Ravenna. The current RVAAP consists of 1,280 acres scattered throughout Camp Ravenna.

Camp Ravenna is in northeastern Ohio within Portage and Trumbull Counties, approximately 4.8 kilometers (3 miles) east northeast of the City of Ravenna and approximately 1.6 kilometers (1 mile) northwest of the City of Newton Falls. The RVAAP portions of the property are located solely within Portage County. The Camp Ravenna/RVAAP property is approximately 17.7 kilometers (11 miles) long and 5.6 kilometers (3.5 miles) wide, bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad on the south; Garret, McCormick, and Berry roads on the west; the Norfolk Southern Railroad on the north; and State Route 534 on the east. Camp Ravenna is surrounded by several communities: Windham on the north; Garrettsville 9.6 kilometers (6 miles) to the northwest; Newton Falls 1.6 kilometers (1 mile) to the southeast; Charlestown to the southwest; and Wayland 4.8 kilometers (3 miles) to the south.

When RVAAP was operational, Camp Ravenna did not exist and the entire 21,683-acre parcel was a government-owned contractor-operated (GOCO) industrial facility. The RVAAP IRP encompasses investigation and cleanup of past activities over the entire 21,683 acres of the former RVAAP. References to the RVAAP in this document are considered to include the historical extent of RVAAP unless otherwise stated. A regional map indicating the location of the RVAAP is presented as Figure 1, Appendix J. A Facility map of the RVAAP is presented as Figure 2, Appendix J.

Production at the facility began in December 1941, with the primary missions of depot storage and ammunition loading. The installation was divided into two separate units – the Portage Ordnance Depot and the Ravenna Ordnance Plant. The Portage Ordnance

Depot's primary mission was storage of munitions and components, while the mission of the Ravenna Ordnance Plant was loading and packing major caliber artillery ammunition and the assembly of munitions initiating components that included fuzes, boosters, and percussion elements. In August 1943, the installation was redesignated the Ravenna Ordnance Center and again, in November 1945, as the Ravenna Arsenal. The plant was placed in standby status in 1950 and operations were limited to renovation, demilitarization and normal maintenance of equipment, along with storage of ammunition and components.

The plant was reactivated during the Korean Conflict to load and pack major caliber shells and components. All production ended in August 1957; and in October 1957, the installation was again placed in a standby condition. In October 1960 the ammonium nitrate line was renovated for demilitarization operations, which involved melting explosives out of bomb casings for subsequent recycling. These operations commenced in January 1961. In July 1961, the plant was again deactivated. In November 1961, the installation was divided into the Ravenna Ordnance Plant and an industrial section, with the entire installation designated as the RVAAP.

In May 1968, RVAAP began loading, assembling, and packing munitions on three load lines (LLs) and two component lines in support of the Southeast Asia conflict. These facilities were deactivated in August 1972. The demilitarization of M71A1 90-millimeter (mm) projectiles extended from June 1973 until March 1974. Demilitarization of various munitions was conducted from October 1982 through 1992.

Until 1993, RVAAP maintained the capability to load, assemble, and pack military ammunition. As part of the RVAAP mission, the inactive facilities were maintained in a standby status by keeping equipment in a condition to permit resumption of production within prescribed limitations. In September 1993, the RVAAP was placed in inactive caretaker status, and subsequently changed to modified caretaker status. The LLs and associated real estate were determined to be excess by the Army.

2.2 Rocket Ridge Site Description

Rocket Ridge is a steep escarpment approximately 500-feet long and 25-feet high located adjacent to Sand Creek within the ODA2 (Army Environmental Database-Restoration Number RVAAP-004-R-01). A site map showing the location of the RRA

within the RVAAP is presented in Appendix J as Figure 2. A site map depicting the location of the RRA within the ODA2 is presented in Appendix J as Figure 3.

The Rocket Ridge slope was likely used for the discarding of demilitarized munitions, although not all munitions appear to have been completely demilitarized. It is speculated that these munitions were transported from ODA2 demolition site, and possibly from other sites at the RVAAP to Rocket Ridge of ODA2 and dumped at the top of the slope.

On 18 June 2007, a rifle grenade containing white phosphorus functioned on the slope of the RRA of ODA2. The Incident Report attributed the cause of the explosion to a corroded white phosphorus grenade that might have been overturned by an animal, exposing the white phosphorus to air, resulting in its auto-igniting, which heated the grenade until the internal burster exploded. No injuries resulted from the incident. During the follow-on white phosphorus incident inspection a variety of munitions related items were identified at the RRA site including 75-millimeter (mm) and 105-mm projectiles (of which one was a fuzed and fired 105-mm High Explosive (HE) projectile), three 500-pound (lb) General Purpose (GP) bombs, booster cups, white phosphorus rifle grenades, various fuzes and burster tubes.

2.3 Progress to Date

The rifle grenade event indicated the need for a response action at Rocket Ridge with installation of the Sand Creek Barriers being the first step or interim measure in the response action.

The Army constructed the Sand Creek barriers to prevent the downstream movement of munitions and explosives of concern (MEC) within Sand Creek. The system consists of two steel wire screen barriers installed across Sand Creek approximately 2,700 feet downstream of Rocket Ridge and 40 feet upstream of George Road Bridge. The barrier location is downstream of the farthest visible piece of munitions-related material that may have migrated from Rocket Ridge. A survey conducted on 5-6 November 2007 upstream of the George Road Bridge identified a piece of munitions debris (MD) approximately 1,200 feet downstream of Rocket Ridge. Thirteen additional magnetometer anomalies from buried sources were found in the stream between the piece of MD and the location of the barrier system. The sources of these subsurface anomalies have not been investigated.

In order to mitigate the immediate explosive hazards (i.e., three 500-(lb) HEGP bombs and one 105-mm HE projectile) identified at the RRA and to investigate the approximate nature, extent, and volume of the Munitions and Explosives of Concern (MEC) and MD present within the RRA, as well as the preparation of a Removal Action Report (RAR) to aid in the scoping of future removal actions; PIKA conducted a Time Critical Removal Action (TCRA) at the RRA in July through August 2009. During the TCRA at RRA it was verified that the RRA is comprised of two distinct areas. The first area is the main dump portion and the second area is the white phosphorus contaminated area. The main dump portion resides along the sloped portion of the RRA while the white phosphorus area is located at the bottom of the slope within a fairly flat area immediately adjacent to and extending into Sand Creek.

The main dump area is approximately 40 feet wide and 45 feet long and contains fragments and pieces of various sized projectiles, fuzes, black stained soils, a littering of burster tubes, booster cups, deteriorated wooden crates and mixing pots as well as two heavily concentrated areas of munitions primers and Point Initiating Base Detonating (PIBD) fuzes. Various MEC are also present along the slope that includes various sizes of HE projectiles and numerous types of fuzes (i.e., T-Bar, PIBD and Base Detonating (BD)). More detailed information relative to the main dump area of the RRA can be found in the *Final Removal Action Report for Time Critical Removal Action (TCRA) at the Rocket Ridge Area (RRA) within RVAAP-004-R-01 Open Demolition Area #2 MRS*, dated December 17, 2009.

The white phosphorus contaminated area is roughly oval in shape and is approximately 56 feet long and 36 feet wide at its extremes and is an area immediately adjacent to the main dump area that appears to have been used exclusively for the dumping and disposal of discarded components from the M19 white phosphorus rifle grenades. Debris from the area, including visible white phosphorus, extends approximately 15 feet into Sand Creek from the shore line. This area is primarily comprised of tail fin assemblies and fragments from the M19 white phosphorus rifle grenades; however based upon the white phosphorus rifle grenade incident reported on June 18, 2007, it is very likely that intact M19 white phosphorus rifle grenades are co-mingled with the debris within this portion of the RRA. More detailed information relative to the white phosphorus area of the RRA can be found in the *Final Removal Action Report for Time Critical Removal Action (TCRA) at the Rocket Ridge Area (RRA) within RVAAP-004-R-01 Open Demolition Area #2 MRS*, dated December 17, 2009.

2.3.1 Future Action

A TCRA is currently being implemented for the RRA. The objective of this project is to remove all the MEC and MD contamination from the RRA and to prepare a Removal Action Report (RAR).

Specific tasks of the Rocket Ridge TCRA Project include the following:

Task 1 – Document Preparation - Prepare and submit a Project Management Plan (PMP), Project Work Plan (PWP) which will include a Site Specific Safety and Health Plan (SSHP), Accident Prevention Plan (APP), Quality Assurance Project Plan (QAPP), Explosives Safety Submission (ESS), Stormwater Pollution Prevention Plan (SWPPP) and a Geotechnical Report.

Task 2 - Divert Sand Creek. In order to prevent contamination from entering the creek and migrating downstream, Sand Creek will be temporarily re-routed away from the Main Dump Area and White phosphorus contaminated Area prior to initiating the TCRA excavation.

Task 3 – MEC and MD Removal. During TCRA operations, all recovered acceptable-to-move MEC and MD in the RRA and in Sand Creek will be removed and stored in an appropriate on site location for subsequent disposal under separate contract.

Task 4- Remove and Containerize White Phosphorus (WP) and WP Contaminated Soil. The WP located in the bank of Sand Creek, or any other location where WP is discovered, including the Creek itself, will be removed from the site and properly containerized and stored for subsequent disposal at an off-site disposal facility under separate contract.

Task 5 – Confirmation Sampling. Two Multi-Increment (MI) surface soil samples will be collected in the RRA TCRA removal area to determine the contamination concentration in the surface soil after the MEC, MD and WP have been removed.

Task 6 – MEC and MD Survey of Sand Creek. Following completion of the TCRA activities within the RRA, Sand Creek will be inspected for any MEC or MD items that

may be present. The portion of the creek to be inspected is the area between Rocket Ridge and the location of the munitions barrier.

Task 7 – Restore Sand Creek. Upon completion of Tasks 3-6, the portion of Sand Creek that was diverted in Task 3 will be restored to the original condition.

Task 8 – Process Excavated Soil to remove MEC and all Material Possibly Presenting and Explosives Hazard (MPPEH). This task involves processing all TCRA excavated soil through a magnetic sorting/screening and inspection process in order to remove MEC, MD and MPPEH items. The resultant soil stockpile will be sampled for disposal at an off-site disposal facility.

Task 9 – Site Restoration Upon completion of all field-work, the RRA and any associated areas impacted by the TCRA activities will be graded and seeded.

Task 10 – Prepare a Removal Action Report (RAR). The report will describe, in detail, the action taken to remove the MEC, MD, and WP contamination at Rocket Ridge.

Optional Task 11: Conduct BIP Operations for items found that are considered unacceptable-to-move, at the direction of the COR. PIKA understands and assumes that this optional task will involve BIP of up to four (4) 105-mm projectile or similar sized munitions..

The USACE, Louisville District is the lead agency responsible for the completion of the Rocket Ridge Project. The USACE selected PIKA International, Inc. (PIKA) as the contractor to implement this project and will coordinate with the Ohio Environmental Protection Agency (Ohio EPA) during the implementation of this project. Rocket Ridge TCRA field activities are currently scheduled to begin in the spring or early summer 2010. The actual start date will be contingent on approval of the project work plans by all stakeholders.

2.4 Installation Restoration Program History

The Installation Restoration Program is a congressionally authorized Department of Defense (DoD) program which began in 1984 for identification, investigation and remediation of past DoD waste releases at its installations in the United States. The

DoD funds and manages the Installation Restoration Program and has delegated local management and implementation of remediation activities.

The Army's cleanup program under the Defense Environmental Restoration Program (DERP) is the Installation Restoration Program (IRP). The overall program goal of the IRP is to clean up previously contaminated lands to an acceptable level of risk on active Army installations as resources and mission requirements allow, with primary emphasis on those areas that may impact human health and the environment.

The Installation Restoration Program is similar to the U.S. Environmental Protection Agency's Superfund Program. The program fulfills the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Superfund Amendments and Reauthorization Act (SARA). The Superfund Amendments and Reauthorization Act (SARA), enacted in 1986, amended CERCLA to require public involvement at certain stages of the environmental investigation. See chart below.

Community Relations Responsibilities for CERCLA process

Community Relations Activities	REMEDIAL RESPONSE PHASES									
	PA	SI	ASR	Pre-Remedial Investigation	RI	FS	Proposed Plan	Pre-Record of Decision	ROD	Remedial Design, Remedial Action, and O&M
Contact State/Local Officials	D	R	R		R	R			D	D
News Release	D	D	D		D	D	D			D
Workshops		D	D		D	D				
Community Interviews				D	D					
Community Relations Plan		R	R	R	R	R	R	R	R	R
Determine need for Restoration Advisory Board (RAB)					R					
Initiate and Maintain the Admin Record	R	R	R	R	R	R	R	R	R	D
Establish Information Repository and Inform Public		R	R	R	R	R	R	R	R	
Publicize Technical Assistance Opportunities				R						
Fact Sheets	D	D	D	D	D	D	R			R
Public Notice			R		R		R		R	
Public Meeting			D				R			
Public Comment Period (30-60 days)			R				R			
Responsiveness Summary			R					R		
Revise Proposed Plan (1)								R		
Second Comment Period (30-60 days) (1)								R		
Revise Community Relations Plan				R	R	R	R	R	R	R

Chart from *Public Participation in the DERP-FUDS Program, Engineer Pamphlet, 1110-3-8, Dec 1999.*

D = Desirable R = Required

PA= Preliminary Assessment SI= Site Inspection
RI=Remedial Investigation FS= Feasibility Study
Plan=Recommended Cleanup Alternative

ASR= Archive Search Report
ROD= Record of Decision Proposed
O&M= Operation and Maintenance

3.0 COMMUNITY BACKGROUND

3.1 Community Profile

In 1808, Portage County, Ohio was organized from Trumbull County. Today, the 492.4 square miles that make up Portage County has a population of 152,061 according to the US Census Bureau in 2000. Portage County is located in northeast Ohio, a forty-five minute drive south of Cleveland, Ohio. The RVAAP opened in 1940, covering 21,419 acres of land surrounded by Ravenna, Charlestown, Paris, Newton Falls, Freedom, Windham and Braceville Townships. The facility provided much needed jobs to Portage and Trumbull counties. It supplied immeasurable munitions to the U.S. troops abroad during WWII. The community witnessed an industrial boom with founding companies such as the Enduro Rubber, Duracote and Allen Aircraft.

Today, Portage County employment has shifted from manufacturing jobs to 68.1 percent service and other jobs. The unemployment statistics show the unemployment rate for Portage at 10.4 percent which is 0.2 percent higher than the 10.2 percent for the State of Ohio. The percentage of Caucasians is 93.2 percent with African Americans making up 4.1 percent and American Indians, Alaska Natives and others making up the remaining 2.7 percent. The majority of Portage County, Ohio residents (71.3 percent) own their own home.

The median household income based on 2007 estimate is \$50,629 with 2.56 persons per household. 10.8 percent of the population in Portage County is living below the poverty level.

3.2 History of Community Involvement

Environmental concerns expressed by residents include potential increase in cancer rates, the area wildlife and whether all contamination risks have been identified, which may determine the course of cleanup.

In 1996, a survey was mailed and articles appeared in the local newspapers to solicit interest in forming a Restoration Advisory Board (RAB). A selection committee reviewed the applications and chose the new RAB members. The RVAAP Restoration

Advisory Board was established with 25 members consisting of community members and appointed representatives. The RAB has a representative from each of the surrounding six townships (Braceville, Newton Falls, Paris, Charlestown, Freedom and Windham), two county representatives (Trumbull and Portage), a representative of the Ohio EPA, and the Army installation facility manager who serves as Co-Chair. The RAB held its first meeting on November 13, 1996 and has had 57 meetings as of August 19 2009. The next RAB meeting is scheduled for March 17, 2010

The purpose of the RAB is to promote community involvement in the Department of Defense environmental cleanup activities and allow the public to review and discuss the progress with decision makers. The RAB rotates its quarterly meetings between the township halls located in Paris, Freedom, Windham and Charlestown. Meetings are usually held the third Wednesday of the month from 6 p.m. to 8 p.m. and a news release announcing the meeting is sent to the local media. The public is invited to attend the RAB meetings which are structured to include presentations and questions and answers. The meetings are recorded and minutes prepared and approved by the board. These are available for review in the Information Repositories located at Reed Memorial Library and Newton Falls Public Library.

Technical Assistance for Public Participation (TAPP) in Defense Environmental Restoration Activities was established to assist RABs in reviewing technical documents. This assistance, enhances the RAB's understanding of the environmental process, and provides an outside independent source of information on the Department of Defense restoration activities. The RVAAP was deemed eligible for funding for a TAPP provider; and Creative Solutions was selected. Currently, the TAPP contractor is Kelly-Buck Company.

To continue to keep the RAB and the media aware of the environmental activities, tours of specific areas of concern have usually been held in July or August. The first tour was held in October 1996. Subsequent tours have been held in 1999 for Erie Burning Ground, in 2000 for Winklepeck Burning Grounds, Demolition Area #2, and Load Line 12, 2001 for Cobbs Pond, Central Burn Pits, and Load Line #11. In 2002, the media and RAB toured Load Line #6, Load Line #2 and were able to view various ordnance that were produced at RVAAP that are inert, or had been detonated or burned. In 2004, the media and RAB toured Fuze and Booster Quarry Ponds, Fuze and Booster Load Lines for Open Burning, Winklepeck Burning Grounds UXO

Clearance site, and the Melt Pour Load Lines 2, 3, and 4 being prepped for demolition operations. In 2005, the media and RAB toured Load Lines 2, 3, and 4 and Winklepeck Burning Grounds. In 2006, the media and RAB toured Load Lines 2 and 3 and Winklepeck Burning Grounds. In 2007, the media and RAB toured Load Lines 1, 2, 3 and 4 and Winklepeck Burning Grounds. In 2008, the media and RAB toured Load Line 4, Central Burn Pits, Winklepeck Burning Grounds Removal Action sites along Lane 1 and the Sand Creek Barriers. In 2009, media and RAB toured Rocket Ridge Area, Ramsdell Quarry, and Load Line 12. Overall, the tours received positive media coverage and enabled the RAB members to voice their approval of the environmental progress being at RVAAP.

3.3 Key Community Concerns

The most recent RAB meeting was conducted on August 19, 2009 at the Charlestown Township Hall located at 6368 Rock Springs in Ravenna, Ohio. A total of two topics were discussed, one being the Rocket Ridge TCRA Project update which included an introduction to the planned TCRA activities. A copy of the August 19, 2009 RAB Agenda and roster of attendees is provided in Appendix K.

The Project update was presented by the prime contractor PIKA International, Inc. (PIKA). The presentation included a site description, site history; including site photos, TCRA findings and overview of the planned TCRA activities including extent & volume of material to be removed at the site.

In Order to facilitate two-way communications between the community and the Corps' project delivery team, both the RAB members and general public were given the opportunity to ask questions about the Rocket Ridge TCRA Phase I at the conclusion of the presentation. Each question was answered by one or a combination of the Corps' project delivery team.

There were a total of six (6) questions fielded following the presentation. The key community concerns expressed during the question and answer session include:

- Timeframe for the RRA TCRA operations.
- Technique for stream diversion.
- Main hazards associated with the white phosphorus present at the site.

- Checking for munitions items that may have already migrated downstream.

3.4 Response to Community Concerns

The Corps of Engineers responded to the community concerns expressed in the August 19, 2009 RAB meeting by the developing and implementing the PIP for the TCRA at the RRA. The PIP outlines the strategy to keep the community involved in the RRA TCRA process. The strategy being implemented includes the following:

- **Community meetings** – community meetings will be held to provide an open forum for information exchange among the Corps of Engineers, other agencies, the media, and the public.
- **Media relations** – the Corps of Engineers has established a proactive relationship with local media to ensure that accurate and expanded coverage of the RVAAP activities was disseminated.
- **Information repository and administrative record file** – information repositories have been established for the RVAAP.
- **Fact sheets and newsletters** – as needed, the Corps of Engineers will develop simple, clear explanations of findings in the form of fact sheets and newsletters to address the concerns expressed by the community.
- **Information contact** – point of contact for the USACE (Jenn Domashevich, telephone number - 502.315.7452) was provided for all public inquiries related to Environmental Restoration Program activities at RVAAP.
- **Toll-free number** – a toll free telephone number (800.527.4636) was established to provide stakeholder's access to the Corps and its representatives.
- **Web site** – the USACE provided summary information and updates on RVAAP on the Web site: <http://www.rvaap.org/>
- **News releases and press conferences** – the local media was briefed at the outset of the work and media releases will be prepared to update media throughout the project.

- **FAQ brochure** – a frequently asked questions brochure will be used to keep stakeholders up-to-date and well informed on the key issues and questions.
- **Paid advertising** – display advertisements will be placed in key local media outlets to promote community meetings.

4.0 USACE's PUBLIC INVOLVEMENT PROGRAM

The USACE Louisville District will be honest, forthright, responsive, clear and proactive in their communications. They will promote and maintain a two-way dialogue between the community and the USACE. Inviting open and honest communications with the community enables the project delivery team to understand and address stakeholder concerns the project and possible remediation with specific attention to health, safety, and environmental issues.

The target audiences for this plan include:

- Stakeholders comprised of members of the general public who express an interest in this site
- Elected Officials
- Interest Groups
- Landowner
- Media

The USACE Louisville District will implement the community activities that are discussed in section 3.5.1. This PIP Addendum is based on community questions and concerns described in section 3 and addresses each issue that was identified as being important to the community. Contact information for officials is provided in Appendices A through E.

4.1 Public Involvement Plan

The USACE Louisville District will continue the public information program that is outlined in the RVAAP September 2003 Community Relations Plan. The program includes community meetings, continuing the proactive communications program with the local and regional media, and providing the community with multiple access points to obtain information on the TCRA at the RRA.

4.1.1 Community Meetings

Community meetings provide an open forum for information exchange among the Corps of Engineers, other agencies, the media, and the public. These meetings are used to inform area residents of the studies' results and provide a forum for community members to ask questions or offer comments and suggestions on our findings. Community meetings will be held to update the community on the progress of the TCRA at the RVAAP RRA. Notices will be provided to the public in the form of news releases and direct mailings, as required to inform the public of the scheduled time and location of these community meetings. Meeting location information is provided in Appendix G.

4.1.2 Media Relations

The Corps of Engineers will continue the established media program. Project goals for the media program are:

- Inform and educate the local and regional media about the historical and current RRA site activities and why these proposed activities are required;
- Offer a tour of the site to the media and other interested stakeholders and show and explain to them the challenges associated with the RVAAP project; and
- Keep the media updated and informed about changes in activities and decisions concerning the project.

The media contact list is provided in Appendix F.

4.1.3 Communication Techniques and Actions

The Corps of Engineers will continue to make information on the TCRA at the RRA available to the public through a variety of channels, including:

- Information repository – locations are provided in Appendix H.
- USACE information contact – USACE contact information provided in Appendix A.
- Web site – USACE Louisville District <http://www.lrl.usace.army.mil>.

- Information releases – fact sheets, newsletters, news releases and press conferences will be used to provide information to the public.
- Paid advertising will be used to notify the community of upcoming events.

4.2 Projected Schedule For Public Involvement Activities

To meet the information desires of the community and to allow RVAAP area residents to participate in the decision-making process, the U.S. Army Corps of Engineers may schedule community relations activities throughout the TCRA at the RRA process. These activities comply with the community involvement requirements of the National Contingency Plan and the CERCLA.

APPENDIX A
USACE/REGULATORY CONTACTS/RVAAP/OHIO ARMY NATIONAL
GUARD CONTACTS

U.S. Army Corps of Engineers, Louisville District
600 Dr. Martin Luther King Jr. Drive
Louisville, KY 40202-2232

Glen Beckham, USACE Project Manager
(502) 315-6799
(502) 315-6793 fax
Email: Glen.Beckham@usace.army.mil

Nick Stolte, USACE Technical Manager
(502) 315-6348
(502) 315-6309 fax
Email: Nicholas.J.Stolte@usace.army.mil

Jenn Domashevich, Public Affairs Specialist
(502) 315-7452
(502) 315-6771 (fax)
Email: Jennifer.S.Domashevich@usace.army.mil

Ravenna Army Ammunition Plant
Mark Patterson, RVAAP Facility Manager
Building 1037
8451 St. Route 5
Ravenna, OH 44266-9297
Office: (330) 358-7311
Fax: (330) 358-7314
mark.c.patterson@us.army.mil

RAB Administrative Officer
Christy Esler
Ravenna Army Ammunition Plant
Building 1038
8451 State Route 5
Ravenna, Ohio 44266
Office: (330) 358-7311
Fax: (330) 358-7314
Mobile: (330) 980-4466
Christy.Esler@us.army.mil

Ohio Environmental Protection Agency, NE District - DERR

Eileen Mohr, Project Manager

**2110 East Aurora Rd
Twinsburg, OH 44087**

Phone: (330) 963-1221

Email: eileen.mohr@epa.state.oh.us

Ohio Environmental Protection Agency, NE District - DERR

Todd Fisher, Project Coordinator

**2110 East Aurora Rd
Twinsburg, OH 44087**

Phone: (330) 963-1148

Email: todd.fisher@epa.state.oh.us

Army Environmental Center

Mark Krivansky

SFIM-AEC-BRC/ M.E. Krivansky
U.S. Army Environmental Center
E4480 Beal Rd

Aberdeen Proving Ground, MD 21010-5401

Office: 410-436-0454

Email: mark.krivansky@us.army.mil

Ohio Army National Guard

LTC. Ed Meade

Camp Ravenna Garrison Commander

1438 State Route 534, SW
Newton Falls, OH 44444-8503

Office: (614) 336-6560

Fax: (614) 336-6796

E-mail: william.meade1@us.army.mil

Ohio Army National Guard

Tim Morgan

Camp Ravenna Environmental Supervisor

1438 State Route 534, SW
Newton Falls, OH 44444-8503

Office: (614) 336-6568

E-mail: timothy.m.morgan@us.army.mil

BRAC Office

William O'Donnell, Program Manager

Assistant Chief of Staff for Installation Management

2530 Crystal Drive,

Arlington, VA 22202

Office: 703-601-1570

E-mail: william.odonnell@us.army.mil

TACOM

Jeffrey Gollon

Rock Island Field Office

1 Rock Island Arsenal

Rock Island, IL 61299-7050

Office 309-782-5369

Fax 309-782-5425

Email: jeffrey.s.gollon@us.army.mil

APPENDIX B LOCAL OFFICIALS

Portage County Officials

Portage County Officials
449 South Meridian Street.
P.O. Box 1217
Ravenna, Ohio 44266-1217
Phone: (330) 297-3600
Fax: (330) 297-3610

County Commissioners

Chuck Keiper, President
Maureen Frederick, Vice-President
Christopher Smeiles, Board Member

Ravenna City Officials

City of Ravenna
210 Parkway
P.O. Box 1215
Ravenna, OH 44266
(330) 296-3864
www.ravenna-oh.com

Mayor Joseph Bica
210 Park Way
Ravenna, OH 44266
330-296-3864
(330) 297-2164 Fax

City Council Members	Phone Number	Email Address
Fran Ricciardi, Council President	(330) 297-9035	fricciardi@ci.ravenna.oh.us
Amy Michael, At Large		amichael@ci.ravenna.oh.us
Bruce Ribelin, At Large	(330) 296-3397	bribelin@ci.ravenna.oh.us
To Be Announced, At Large		
Sharon Spencer, Ward 1	(330) 296-7565	sspencer@ci.ravenna.oh.us

Frank Seman, Ward II	(330) 296-9222	fseman@ci.ravenna.oh.us
Jack Ferguson, Ward III	(330) 297-7320	jferguson@ci.ravenna.oh.us
Scott Rainone, Ward IV	(330) 297-1821	srainone@ci.ravenna.oh.us
Kathryn Hann, Council Clerk	(330) 297-2155	khan@ci.ravenna.oh.us

City of Ravenna Health Commissioner

Lynette Blasiman
(330) 297-2163
lblasiman@ci.ravenna.oh.us

APPENDIX C STATE OFFICIALS

State Legislators	
<p>Senator Tom Sawyer, D-Ohio 28th Senate Building Room #049 Ground Floor Columbus, OH 43215 Office: (614) 466-7041 Email: senatorsawyer@maild.sen.state.oh.us</p>	
<p>Representative Stephen Dyer D-43rd 77 S. High St 12th Floor Columbus, OH 43215-6111 Tel: (614) 466-1790 Fax: (614) 719-6943 Email: district43@ohr.state.oh.us</p>	
<p>Representative Kathleen Chandler D-68th 77 S. High St 11th Floor Columbus, OH 43215-6111 Phone: (614) 466-2004 Fax: (614) 719-3968 Email: district68@ohr.state.oh.us</p>	

**APPENDIX D
FEDERAL ELECTED OFFICIALS**

Federal Legislators and Ohio Governor	
<p>Governor Ted Strickland Riffe Center, 30th Floor 77 South High Street Columbus, OH 43215-6108 Office: (614) 466-3555 Fax: (614) 466-9354 Email: www.governor.ohio.gov</p>	<p>Rep. Steven C. LaTourette, R-14th 2453 Rayburn House Office Bldg. Washington, DC 20515 Office: (202) 225-5731</p>
<p>Senator George Voinovich, R-Ohio 37 W. Broad St, Rm 310 Columbus, OH 43215 Office: (614) 469-6697 Email: Voinovich@senate.gov</p>	<p>Representative Tim Ryan, D-17th 222 Cannon Office Building Washington, DC 20515 Phone: (202) 225-5261 Fax: (202) 225-3719</p>
<p>Senator Sherrod Brown 200 N High St. Room 614 Columbus, OH 43215 p (614) 469-2083 f (614) 469-2171 Toll Free 1-888-896-OHIO (6446)</p>	

APPENDIX E RAB MEMBERS

The following individuals comprise our RAB Members list.

Dr. Jay Abercrombie 2321 Bixler Dr. Suffield, Ohio 44260	Ms. Sue Boles 8800 Cable line Rd. Ravenna, Ohio 44266
Ms. Rebecca Carter 132 Laubert Rd. P.O. Box 427 Randolph, Ohio 44265	Mr. James DiPaola 3201 Summit Rd. Ravenna, Ohio 44266
Mr. Walter Landor 204 S. Aspen Ct., Unit 1 Warren, OH 44484	Ms. Sarah Lock 9786 Min-Young Rd. Ravenna, Ohio 44266
Ms. Irene Glavies-Lutz 5488 Liberty Ave. Newton Falls, Ohio 44444	Mr. James Mayer P.O. Box 14 8363 Center Street Garrettsville, Ohio 44231
Ms. Nina Miller 789 State Route 534, SW Newton Falls, Ohio 44444	Mr. Richard Poots 10232 Hopkins Rd. Garrettsville, Ohio 44231
Mr. Thomas Smith 5975 McClintocksburg Rd. Ravenna, Ohio 44266	Mr. Dan Spicer 6180 State Rt. 225 Ravenna, Ohio 44266
Mr. Bill Steiner 2581 Hartville Rd. Rootstown, Ohio 44272	Ms. Nancy Taylor 5761 State Route 225 Ravenna, Ohio 44266
Mr. George Tompkins 8940 Creamery St. Wayland, Ohio 44285	Mr. Delbert Woloski 2422 Ridgewood Newton Falls, Ohio 44444
MUNICIPALITIES:	
Mr. Mark Patterson RVAAP Facility Manager 8451 State Route 5, Bldg. 1037 Ravenna, OH 44266"	Mr. Joseph Beutler Charleston Township Representative 5950 Knapp Rd. Ravenna, Ohio 44266
Mr. Howard Furl Windham Township 9450 Bryant Rd. Windham, Ohio 44288	Mr. Roy Martin Freedom Township 5934 Steeter Rd Mantua, Ohio 44255

Ms. Eileen Mohr Ohio EPA 2110 East Aurora Rd. Twinsburg, Ohio 44087	Mr. Bill Miller Trumbull County Commissioner Rep. 347 North Park Ave. Warren, Ohio 44481
Mr. Jon Barber Portage County Commissioner Representative Office of Homeland Security & Emergency Mgmt. Agency 8240 Infirmery Rd. Ravenna, Ohio 44266	Ms. Dorene Spicer Paris Township Trustee 6180 State Rt. 225 Ravenna, Ohio 44266
Mr. Thomas Tadsen, Retired OHARNG LTC Community Co-Chairman 7657 West Lake Blvd. Kent, Ohio 44240-6342	
Non- Member	
RVAAP RAB Administrator Christy Esler 8451 State Route 5, Bldg. 1037 Ravenna, Ohio 44266	
Updated: February 2010	

PUBLIC MAILING LIST

The following individuals, agencies and organizations comprise our mailing list. These individuals and organizations, will receive information, as it becomes available on environmental restoration activities at RVAAP.

MR. WALTER ADAMS
336 HIGH STREET
KENT, OH 44240

MS. CAROLINE ARNOLD
1322 CHELTON DRIVE
KENT, OH 44240

MR. RICK WARGO
5989 WAYLAND ROAD
RAVENNA, OH 44266

MS. KARIN BERGENER
8034 LIMERIDGE ROAD
RAVENNA, OH 44266

MR. ROGER THOMPSON
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MS. EDNA BLACK
431 MADISON STREET
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322 NORTH PROSPECT
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64 WINONA AVENUE
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MR. ADAM HARRIS
PORTAGE COUNTY HEALTH DEPT
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4065 ALLIANCE ROAD
RAVENNA, OH 44266

MR. FRED INEMAN
8195 FISHER
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MR. BART KERSTETTLER
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MR./MRS HENRY KESTER
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912 PORTAGE LAKES DRIVE
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WESLEY CHAPEL, FL. 33543

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MR. NORMAN ROBBINS
CASE WESTERN RESERVE UNIV
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CLEVELAND, OH 44106-4945

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WESTOVER
9789 NEWTON FALLS ROAD
RAVENNA, OH 44266

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1345 BRIGHTON AVENUE
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MS. JOAN ROMAN
3050 BRADY LAKE ROAD
RAVENNA, OH 44266

MR. GEORGE ROSSOW
6481 PECK ROAD
RAVENNA, OH 44266

MR. JOHN SAWRUK
667 OXHILL COURT
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RAVENNA, OH 44266

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NEWTON FALLS, OH 44444

MR. MIKE SEVER
RECORD COURIER
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RAVENNA, OH 44266

ALEA SHAW
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CORTLAND, OH 44410

MR. ROBERT SMITH
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MR RICHARD I HARRIS
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LOUISVILLE, OH 44641

MS. KAY LINGO
442 WOODLAND AVENUE
NEWTON FALLS, OH 44444

MS. LINDA SHAULIS
9174 NEWTON FALLS ROAD
RAVENNA, OH 44266

MS. HELEN NETHING
5595 KNAPP ROAD
RAVENNA, OH 44266

MS. DEBORAH ECKERT
6115 SPRING STREET
RAVENNA, OH 44266

WINDHAM TOWNSHIP TRUSTEES
9708 PARKMAN ROAD
WINDHAM, OH 44288

MS. KATHLEEN CHANDLER
428 DANSEL STREET
KENT, OH 44240

MS. JERALEE SPAHLINGER
3856 STATE ROUTE 82, S.W.
NEWTON FALLS, OH 44444

MAYOR
MUNICIPAL BUILDING
9621 EAST CENTER STREET
WINDHAM, OH 44288

PORTAGE COUNTY
COMMISSIONERS
ADMINISTRATION BUILDING
449 SOUTH MERIDIAN
RAVENNA, OH 44266

TRUMBULL COUNTY
COMMISSIONERS
160 HIGH STREET NW
WARREN, OH 44481

MAYOR
210 PARKWAY
BOX 1215
RAVENNA, OH 44266

U.S. SENATOR
COLUMBUS DISTRICT OFFICE
37 WEST BROAD STREET, SUITE
300
COLUMBUS, OH 43215

U.S. SENATOR
17820 ROSECLIFF ROAD
CLEVELAND, OH 44119

MR. DAVID SEELY
U.S. EPA REGION V - CHICAGO
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

MAYOR
19 NORTH CANAL STREET
NEWTON FALLS, OH 44444

DIRECTOR
OHIO ENVIRONMENTAL
PROTECTION AGENCY
P.O. BOX 1049
COLUMBUS, OH 43216-1049

MR. JACK PITTANO
DEFENSE LOGISTICS AGENCY
WARREN DEPOT - MOWG
PINE STREET EXTENSION
WARREN, OH 44482-9999

CONGRESSMAN TIMOTHY RYAN
241 FEDERAL PLAZA WEST
YOUNGSTOWN, OHIO 44503

910TH TACTICAL AIRLIFT
WING
3976 KING GRAVES ROAD
VIENNA, OH 44473-0901

MR. DEREK ROMITTI
5179 HOADLEY ROAD (ROMITTI)
APG, MD 21010-5401,

U.S. ARMY ENVIRONMENTAL
CENTER
ATTN; SFIM-AEC-NR (REG 5 REC)
5179 HOADLEY ROAD
ABERDEEN PROVING GROUND,
MD 21010-5401

MAJOR
ADJUTANT GENERAL'S DEPT
ATTN: AGOH-FM-EN
2825 WEST DUBLIN-
GRANVILLE ROAD
COLUMBUS, OH 43235-2712

APPENDIX F MEDIA CONTACTS

Television Stations

WEWS TV ABC News Channel 5

44 E Exchange St
Akron, OH 44328
(330) 434-0616
(216) 431-3666 fax

WVPX 23 TV

1 S Main Street
Akron, OH 44308
(330) 434-2323

WVIZ PBS Ideastream

Idea Center @ Playhouse Square
1375 Euclid Avenue
Cleveland OH 44115-1835
(216) 961-6100

WEAO TV Channel 49

1750 Campus Center Dr
Kent, OH 44240
(330) 677-4549
(330) 678-0688 fax
<http://www.ch4549.org/>

WBNX – WB

2690 State Rd
Cuyahoga Falls, OH 44223
(440) 843-5555
(330) 929-2410 fax

WOIO- CBS

1717 E 12th Street
Cleveland, OH 44114
(216) 771-1943
(216) 436-5460 fax

WYTV – ABC

3930 Sunset Blvd
Youngstown, OH 44512
Station: (330) 783-2930
Fax: (330) 782-5261

WKYC- NBC

1333 Lakeside Ave
Cleveland, OH 44114
(216) 344-3333
(216) 344-3326 fax

WKBN - FOX

3930 Sunset Blvd.
Youngstown, OH 44512
Station: (330) 782-1144
Fax: (330) 782-5261

Radio Stations

WJMP 1520 AM

2449 State Route 59
Ravenna, OH 44266
Station: (330) 678-1520

WAPS 91.3 - Quality Rock

Public Radio
65 Steiner Avenue
Akron, OH 44301
Office: 330-761-3099
Studio: 330-761-9277
Fax: (330) 761-3

WNIR – 100 – Talk

P.O. Box 2170
Akron, OH 44309
Station: (330) 673-2323
Fax: (330) 673-0301

Clear Channel Radio

6200 Oak Tree Blvd
Independence, OH 44131
News: (216) 520-2600
Newsroom Fax: (216) 901 8133

Newspapers

Youngstown Publishing Co

PO Box 714
Youngstown, OH 44501
(330) 744-5023
(330) 744-5838 fax
<http://www.business-journal.com/>

Tribune Chronicle

240 Franklin St SE
Warren, OH 44448
(330) 841-1600
(330) 841-1717 Newsroom fax
<http://www.tribunechronicle.com/>

Record-Courier

126 N Chestnut St
Ravenna, OH 44266
(330) 296-9657
(330) 296-2698 fax
<http://www.recordpub.com/>

The Vindicator

135 Pine Ave SE # 208
Warren, OH 44481
(330) 392-0176
(330) 747-6712 Newsroom fax
<http://www.vindy.com/>

Associated Press

815 Superior Ave E
Suite 1203
Cleveland, OH 44114-2768
(216) 771-2172

(216) 771-4218 fax

Akron Legal News Inc

60 S Summit Street

Akron, OH 44308

(330) 376-0917

(330) 376-7001 fax

Akron Beacon Journal

44 E Exchange St

Akron, OH 44308

(330) 996-3600

(330) 376-9235 fax

<http://www.ohio.com/bj/>

APPENDIX G MEETING LOCATIONS

The Restoration Advisory Board meetings are rotated every quarter to one of four area Township Halls. The meetings are usually held in March, June, September and November with a tour of a specific area of concern of RVAAP scheduled in July or August. The RAB meets from 6:00 p.m. to 7:40 p.m.

Paris Township

Shearer Community Center
9355 Newton Falls Road
Ravenna, OH 44266
Office: (330) 358-2600
Linda Shaulis, Fiscal Officer

Freedom Township Hall

Town Hall-Triangle of Routes 700, 303 & 88
Windham, OH 44288
Office: (330) 297-1709
Fax: (330) 676-6758
Rosemary Nicholas, Fiscal Officer

Windham Town Hall

9011 North Main Street
Windham, OH 44288
Office: (330) 326-2971
Jayme Neikirk, Clerk

Charlestown Town Hall

6368 Rock Springs Road
Ravenna, OH 44266
Office (330) 296-2018
Ruth Craft, Fiscal Officer

APPENDIX H REPOSITORY LOCATIONS

Information Repository and Administrative Record File

Current information and final documents are placed in the Information Repository and maintained by the RVAAP Facilities Manager. An **Information Repository** has been established at the following locations:

Reed Memorial Library

167 East Main St

Ravenna, OH 44266

(330) 296-2827

Hours: Mon-Fri 10am-9pm

Sat 10am-6pm

Newton Falls Public Library

204 South Canals

Newton Falls, OH 44444

(330) 872-1282

Hours: Mon-Thurs 9am-8pm

Fri-Sat 9am-5pm

The **Administrative Record File** is established and maintained by the RVAAP Facilities Manager and is located at:

RVAAP

Building 1037 Conference Room

8451 St. Route 5

Ravenna, Ohio 44266-9297

(330) 358-7311

Since the Administrative Record File is located at the installation, access is restricted, but can be obtained with prior notice.

APPENDIX I GLOSSARY

Archive Search Report: A detailed investigation to report on past munitions and explosives of concern (MEC) activities conducted on an installation; includes an MEC-specific project inspection and historical records searches.

Comment Period: A period, usually 30 days, when members of the public review and comment on specific documents or proposed actions.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA): A federal law enacted by Congress in 1980 and modified in 1986 by the Superfund Amendments and Reauthorization Act (SARA).

Decision Document: A formal published record of a significant decision made regarding an Environmental Restoration Program site. Decision Documents are prepared when a site requires no further action or when a site remediation method has been selected.

Engineering Evaluation/Cost Analysis (EE/CA): A comparative analysis of removal action options for an Environmental Restoration Program site.

Environmental Restoration Program (ERP): A Comprehensive Environmental Response, Compensation and Liability Act environmental cleanup program. It was established to identify, assess, investigate and clean up substances at past disposal and spill sites.

Focused Feasibility Study: The Focused Feasibility Study is used to select the most appropriate remedial alternative for a site, to prepare cost estimates, and to initiate the remedial design. When circumstances limit the number of available options, and therefore the number of available alternatives developed, a Focused Feasibility Study, focusing on two or three alternatives, may be applicable.

Formerly Used Defense Sites Program (FUDS): The U.S. Army Corps of Engineers is the executing agent for environmental restoration and clean up of former Department of Defense properties.

Groundwater: Water beneath the earth's surface, found in soil, sand, and other porous substances. Groundwater may be pumped to the surface and used as a source of drinking water or for irrigation.

Hazardous, Toxic, and Radioactive Waste (HTRW) Projects: Projects at sites with hazardous, toxic, or radioactive contamination.

Hydrogeologic Study: The study of the geology of groundwater, with particular emphasis on the chemistry and movement of water.

Information Repository: A place where current information, technical reports, and reference documents concerning a U.S. Army Corps of Engineers Environmental Restoration Program site are stored. The Information Repository is usually in a public library near the site and is available for public access and review.

Monitoring Well: A well used to collect groundwater samples for water quality analysis or to measure groundwater levels.

Munitions and Explosives of Concern (MEC): This term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks means: (A) Unexploded ordnance (UXO), as defined in 10 U.S.C. 101(e)(5)(A) through (C); Discarded military munitions (DMM), as defined in 10 U.S.C. 2710 (e)(2); or (C) Munitions constituents (e.g., TNT, RDX) as defined in 10 U.S.C. 2710 (e)(3), present in high enough concentrations to pose an explosive hazard.

Operation and Maintenance: Activities conducted after a Superfund site action is completed to ensure that the action is effective.

National Contingency Plan (NCP): The federal regulation that guides determination of the sites to be corrected under both the Superfund program and the program to prevent or control spills into the surface waters or elsewhere.

Potentially Responsible Party (PRP): Any individual or company – including owners, operators, transporters, or generators – potentially responsible for, or contributing to a spill or other contamination at a Superfund site. Whenever possible, through administrative and legal actions, EPA requires PRPs to clean up hazardous sites they have contaminated.

Preliminary Assessment (PA): The first phase of the U.S. Army Corps of Engineers' Environmental Restoration Program. It consisted primarily of past and present Ravenna Army Ammunition Plant employee interviews and a thorough review of operational and historic records of the site. This draft preliminary assessment evaluated areas of potential concern that may need further investigation.

Record of Decision (ROD): A public document that explains which cleanup alternative(s) will be used at National Priorities List sites where, under CERCLA, Trust Funds pay for the cleanup.

Remedial Action (RA): The actual construction or implementation of the remedy selected to contain, control, or remediate an identified site. This action follows the Remedial Design phase of the Environmental Restoration Program.

Remedial Design (RD): The development of technical specifications and engineering design necessary to carry out a Remedial Action.

Remedial Investigation/Feasibility Study (RI/FS): Investigation and analytical studies conducted at an Environmental Restoration Program site. The investigation and study fully define the type and extent of the environmental impacts, establish criteria for remediating the site, identify and screen potential alternative remedies, and analyze the technologies and costs related to each potential alternative remedy.

Resource Conservation and Recovery Act (RCRA): This law establishes a framework to achieve environmentally sound management of both hazardous and non-hazardous wastes. RCRA also promotes resource recovery (recycling) techniques and methods to reduce the generation of hazardous waste.

Site Inspection (SI): The second phase of the Environmental Restoration Program. A Site Inspection begins if the Preliminary Assessment suggests the existence of environmental impacts at a particular site. This second phase involves on-scene inspection and sampling of soil, surface water, and groundwater. The samples are analyzed to confirm the presence or absence of environmental impacts.

Superfund Amendments and Reauthorization Act (SARA): A federal law enacted by Congress in 1986. The Superfund Amendments and Reauthorization Act amended the Comprehensive Environmental Response, Compensation and Liability Act of 1980. This Act sets cleanup standards that strongly favor permanent remedies, gives the Environmental Protection Agency more control over cleanup procedures and provides an opportunity for the State EPA and the community to comment on the recommended cleanup alternative. This Act sets health and safety standards for workers at cleanup sites.

Surface Water: Ground-level bodies of water, such as rivers, lakes and streams.

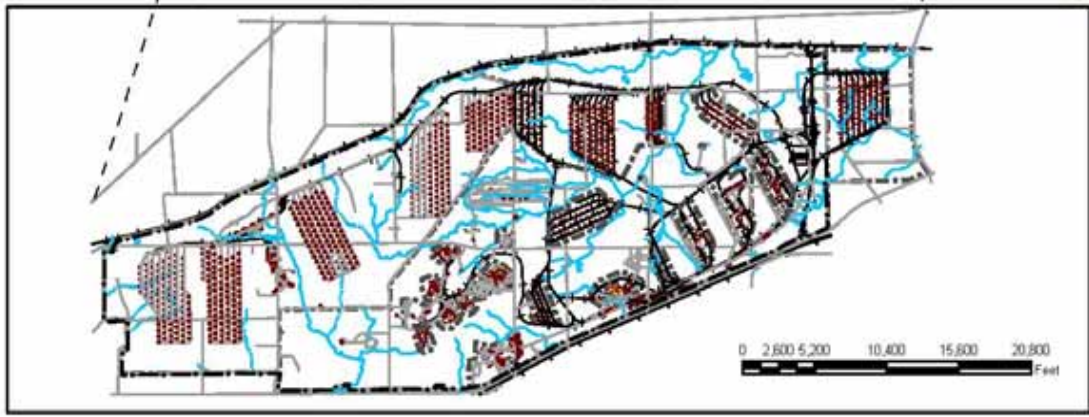
U.S. Environmental Protection Agency (USEPA): The primary federal agency responsible for enforcement of federal laws protecting the environment.

APPENDIX J LOCATION MAPS

Figure 1: General Location and Orientation of RVAAP

Figure 2: Location of Rocket Ridge within RVAAP

Figure 3: Location of Rocket Ridge at ODA2



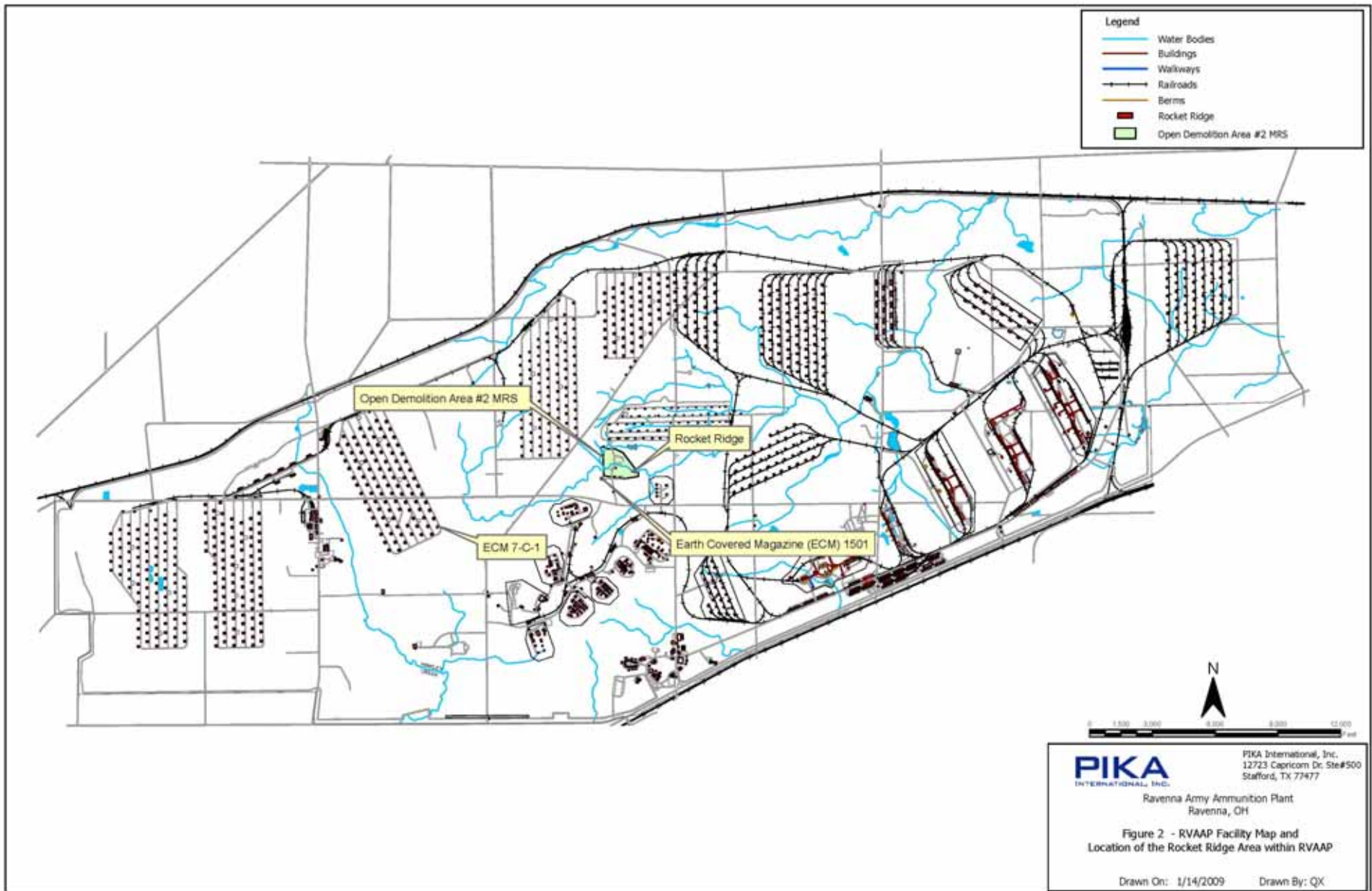
PIKA
INTERNATIONAL, INC.

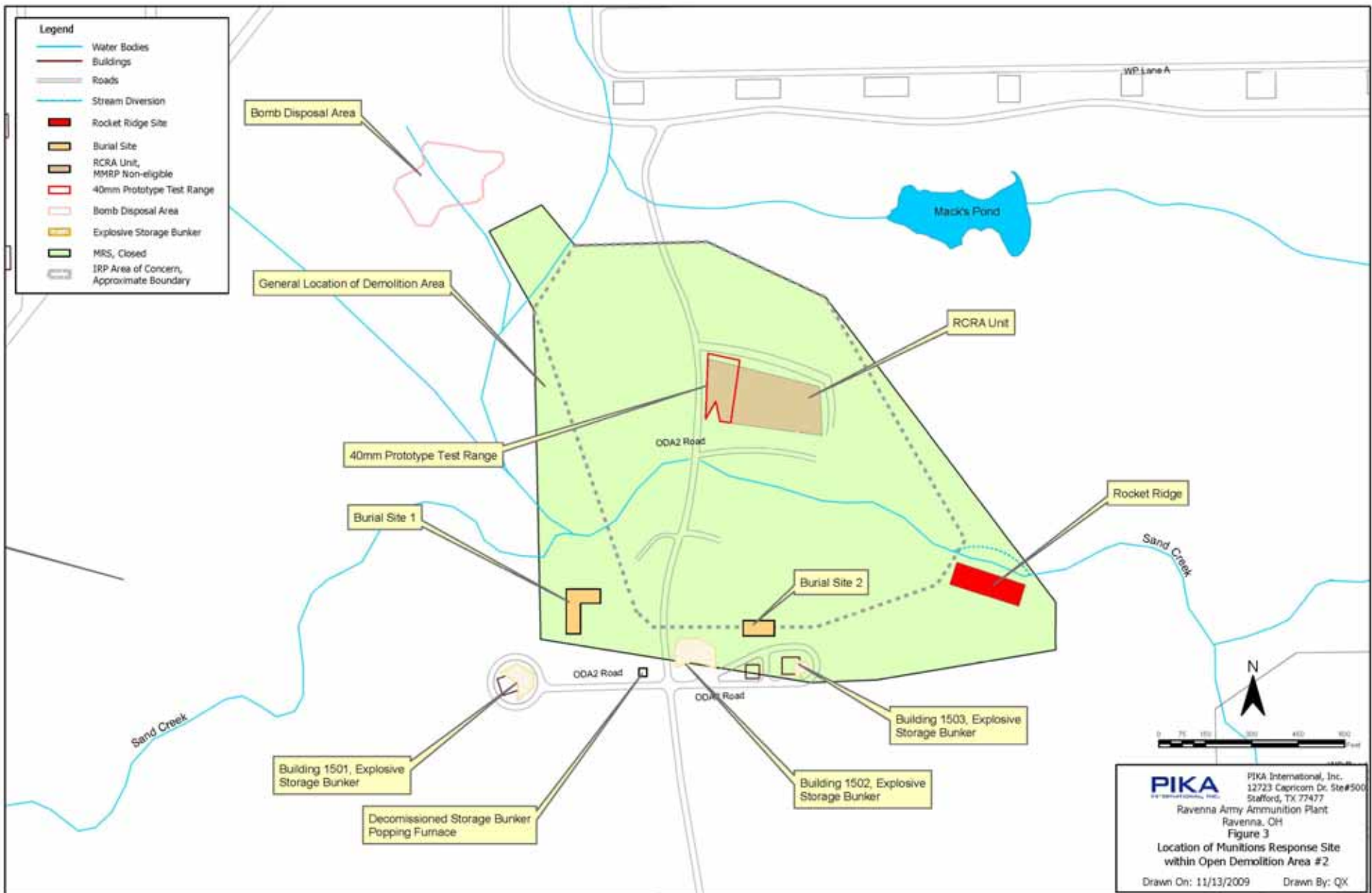
PIKA INTERNATIONAL, INC.
12723 CAPRICORN DR., STE #500
STAFFORD, TX 77477

Ravenna Army Ammunition Plant
Ravenna, OH

FIGURE 1 - GENERAL LOCATION AND
ORIENTATION OF RVAMP

Drawn On: 10/30/2007 Drawn By: QX Reviewed By: SAK





APPENDIX K
August 2009 RAB Agenda and List of Attendees

RAVENNA ARMY AMMUNITION PLANT RESTORATION ADVISORY BOARD

The next Ravenna Army Ammunition Plant (RVAAP) Restoration Advisory Board (RAB) meeting is scheduled as follows:

DATE: Wednesday – August 19, 2009

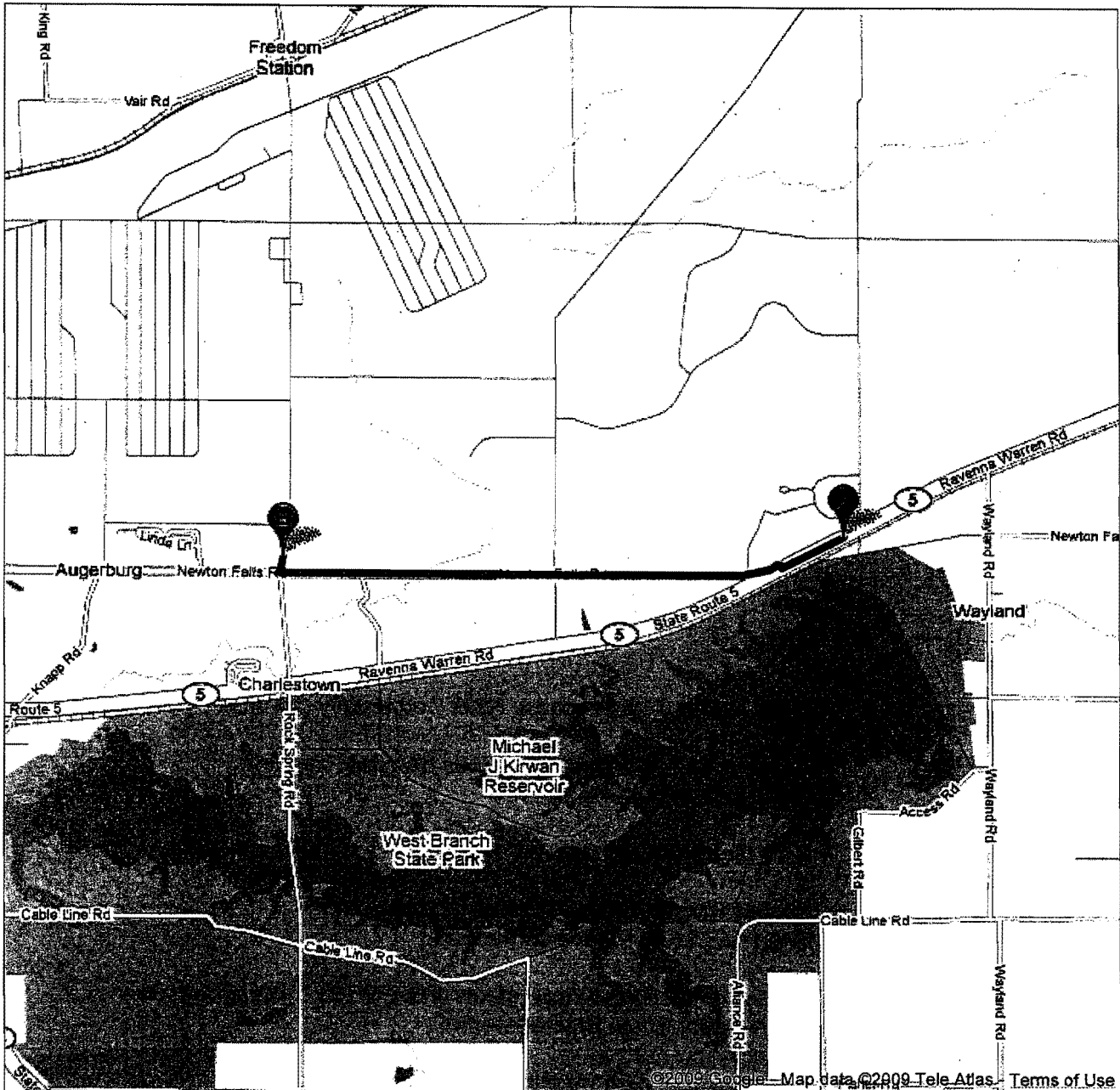
TIME: 6:00 P.M. – 7:40 P.M.

PLACE: Charlestown Township, (located at 6368 Rock Spring Rd) please see directions on back.

MEETING AGENDA

- | | |
|--------------------|--|
| 6:00 | Call to order, Tom Tadsen- RAB Community Co-chair |
| 6:00 – 6:10 | Reading and approval of minutes from last meeting.
Taking of attendance. |
| 6:10 – 6:30 | RAB General Business |
| 6:30 – 7:00 | Rocket Ridge, Phase I Project Update,
Brian Stockwell PIKA International |
| 7:00 – 7:30 | Performance Based Acquisition (PBA) FY09 Project Overview
Dave Cobb, Shaw Environmental |
| 7:30 – 7:40 | Scheduling of next meeting |
| 7:40 | Adjourn |

Meeting dates, times, and locations will also be announced in local newspapers and on rvaap.org. Please call Ms. Christy Esler, RAB Administrator, at (330) 358-7311 or Mr. Mark Patterson, U.S. Army Co-Chairman at (330) 358-7312 if you have any questions concerning this meeting. The meeting is open to the public.



8451 State Route 5, Ravenna, OH 44266
Ravenna Arsenal

- 5 1. Head **southwest** on **OH-5/State Route 5** toward **Newton Falls Rd** go 0.4 mi
total 0.4 mi
- 2. Turn **right** at **Newton Falls Rd**
 About 6 mins go 2.9 mi
total 3.2 mi
- 3. Turn **right** at **Rock Spring Rd** go 0.1 mi
total 3.3 mi

📍 Charlestown Town Hall
 6368 Rock Spring Rd, Ravenna, OH 44266-9610 - (330) 296-7003

**Ravenna Army Ammunition Plant
Restoration Advisory Board
Sign In Sheet**

August 19, 2009

	RAB Members	Signature
1.	Dr. Jay Abercrombie	<i>Jay Abercrombie</i>
2.	Ms. Sue Boles	<i>Sue Boles</i>
3.	Ms. Rebecca Carter	<i>Rebecca Carter</i>
4.	Mr. James DiPaola	<i>James DiPaola</i>
5.	Mr. Walter Landor	<i>Walter Landor</i>
6.	Ms. Sarah Lock	<i>Sarah Lock</i>
7.	Ms. Irene Glavies-Lutz	<i>Irene Glavies-Lutz</i>
8.	Mr. James Mayer	Absent
9.	Ms. Nina Miller	Excused
10.	Mr. Richard Poots	Absent
11.	Mr. Thomas Smith	Absent
12.	Mr. Dan Spicer	<i>Dan Spicer</i>
13.	Mr. Bill Steiner	<i>Bill Steiner</i>
14.	Ms. Nancy Taylor	Excused
15.	Mr. George Tompkins	<i>George Tompkins</i>
16.	Mr. Delbert Woloski	<i>Delbert Woloski</i>
	Municipalities	
17.	Mr. Jon Barber Portage County Comm. Rep.	Jon Barber came in @ 6:30.
18.	Mr. Joe Beutler	<i>Joe Beutler</i>
19.	Mr. Howard Furl	Absent
20.	Mr. JJ Leet	JJ Leet
21.	Ms. Eileen Mohr	<i>Eileen Mohr</i>
22.	Mr. Bill Miller	Absent
23.	Mr. Mark Patterson	<i>Mark Patterson</i>
24.	Ms. Dorene Spicer	<i>Dorene M. Spicer</i>
25.	Mr. Thomas Tadsen	<i>Thomas A. Tadsen</i>

Ravenna Army Ammunition Plant Restoration Advisory Board Meeting 19 Aug 09

	Name	Mailing Address or E-mail account	Phone
1	Tim		
2	Tim Rutledge	SAIC	
3	Rick Wargal	5820 Wayland 44266	
4	George Tompkins	PO Box 43 Wayland 44285	
5	Bobby Chase	5731 Cannon Drive Kent 44242	330-673-1122
6	Julie Smeites	Villager News Paper	
7	DAVE COBB	SHAW	
8	J J Ziv	Freedom	
9	ANDREA STEELE	SHAW	
10	Jennifer Zavoda	Kelly - Book Co.	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

APPENDIX L
Cumulative Signed Documentation/Correspondence

Sue Boles

From: Brian Stockwell
Sent: Tuesday, April 13, 2010 2:10 PM
To: Sue Boles
Subject: FW: RRA RTC

FYI - Ohio EPA concurrence for PIP and PMM CRTs

Regards,

Brian Stockwell
Project Manager
PIKA International, Inc.
office: (330) 358-7135
cell: (330) 352-6955

From: Eileen Mohr [mailto:eileen.mohr@epa.state.oh.us]
Sent: Fri 4/2/2010 11:09 AM
To: Brian Stockwell
Cc: Eileen Mohr; Todd Fisher; Kathleen Anthony; Shawn Corcoran; Shahrukh Kanga; katie.elgin@us.army.mil; mark.c.patterson@us.army.mil; nicholas.j.stolte@usace.army.mil
Subject: Re: RRA RTC

Looks good Brian. Please proceed with preparing the final documents. Happy Easter and enjoy the great weather back to you!

Eileen T. Mohr
Project Manager
Division of Emergency and Remedial Response
2110 East Aurora Road
Twinsburg, OH 44087
330-963-1221
330-487-0769 (FAX)
email: Eileen.Mohr@epa.state.oh.us

>>> "Brian Stockwell" <bstockwell@pikainc.com> 04/02/10 11:51 AM >>>

Hi Eileen - per our recent conversation, attached pls find the RTCs for RRA PMP and PIP documents with Work Plan RTCs to follow in the short term. If you have any questions or require any clarification please let me know. Have a great Easter weekend and enjoy this weather!
Thanks

Regards,

Brian Stockwell
Project Manager
PIKA International, Inc.
office: (330) 358-7135
cell: (330) 352-6955

Ohio Environmental Protection Agency
This communication and any response to it
may constitute a public record and thus may be
publicly available to anyone who requests it.

4/13/2010

Sue Boles

From: Brian Stockwell
Sent: Tuesday, April 13, 2010 2:11 PM
To: Sue Boles
Subject: FW: Draft Project Management Plan and Public Involvement Plan for Rocket Ridge TCRA (UNCLASSIFIED)

OHARNG corespondence regarding review of PMP amd PIP

Regards,

Brian Stockwell
Project Manager
PIKA International, Inc.
office: (330) 358-7135
cell: (330) 352-6955

From: Elgin, Kathryn S CIV NGOH [mailto:katie.elgin@us.army.mil]
Sent: Thu 3/11/2010 2:33 PM
To: Brian Stockwell
Subject: Draft Project Management Plan and Public Involvement Plan for Rocket Ridge TCRA (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Brian:
Not sure if I sent this to you this or not, but I will not be commenting on the above referenced documents. Thanks,

Katie Elgin
Environmental Specialist 2
OHARNG
Camp Ravenna Joint Military Training Center
(614)336-6136
Classification: UNCLASSIFIED
Caveats: NONE

Sue Boles

From: Brian Stockwell
Sent: Thursday, May 13, 2010 3:37 PM
To: Sue Boles
Subject: FW: PIKA Final Work Plan, Management Plan, PIP, for Rocket Ridge TCRA (UNCLASSIFIED)

for your files

Regards,

Brian Stockwell
Project Manager
PIKA International, Inc.
office: (330) 358-7135
cell: (330) 352-6955

From: Elgin, Kathryn S CIV NGOH [mailto:katie.elgin@us.army.mil]
Sent: Thu 5/13/2010 1:35 PM
To: Brian Stockwell
Cc: Eileen Mohr; Todd Fisher; 'Mark Patterson; Nick Stolte; Bob Guthrie; Beckham, Glen LRL
Subject: PIKA Final Work Plan, Management Plan, PIP, for Rocket Ridge TCRA (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Brian:
I reviewed the Final work plan, project management plan, public involvement plan, and Independence eco documents and do not have any additional comments.
Thanks,

Katie Elgin
Environmental Specialist 2
OHARNG
Camp Ravenna Joint Military Training Center
(614)336-6136
Classification: UNCLASSIFIED
Caveats: NONE



State of Ohio Environmental Protection Agency

Northeast District Office

2110 East Aurora Rd.
Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769
www.epa.state.oh.us

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

May 18, 2010

RE: RAVENNA ARMY AMMUNITION PLANT
PORTAGE/TRUMBULL COUNTIES
RRA TCRA FINAL PMP AND PIP

Mr. Mark Patterson, Facility Manager
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, OH 44266

Dear Mr. Patterson:

The Ohio Environmental Protection Agency (Ohio EPA), Northeast District Office (NEDO), Division of Emergency and Remedial Response (DERR) has received and reviewed the following documents:

1. Final Project Management Plan for the Time Critical Removal Action (TCRA) at the Rocket Ridge Area (RRA) within RVAAP-004-R-01 Open Demolition Area # 2 MRS.
2. Final Public Involvement Plan Addendum for the Time Critical Removal Action at the Rocket Ridge Area.

Both of these documents, dated May 7, 2010 and received on the same date, were prepared for the U.S. Army Corps of Engineers (USACE) – Louisville District by PIKA International, Inc., under contract number W912QR-09-P-0213. Both final documents were reviewed compared to the draft documents and the approved Response to Comments (RTC) table.

Both the final Public Involvement Plan and the final Project Management Plan are approved.

If you have any questions concerning this correspondence, please do not hesitate to contact me at (330) 963-1221.

Sincerely,

Eileen T. Mohr, Project Manager
Division of Emergency and Remedial Response

ETM/kss

cc: Glen Beckham, USACE Louisville
Katie Elgin, OHARNG
Brian Stockwell, PIKA

Nick Stolte, USACE Louisville
Mark Krivansky, AEC
Shahram Taherinia, PIKA

ec: Mike Eberle, Ohio EPA, NEDO, DERR
Todd Fisher, Ohio EPA, NEDO, DERR
Christy Esler, VISTA/US Army
Sue Boles, PIKA

APPENDIX M

Comment Response Table

Draft Public Involvement Plan Addendum for the Phase II Time Critical Removal Action at the Rocket Ridge Area
Ravenna Army Ammunition Plant, Ravenna Ohio
Comment Response Table
January 29, 2010

Cmt #	Page#/ Line #	Comment	Recommendation	Response
Ohio EPA NEDO DERR - Eileen T. Mohr				
O-1	5/4-6	The text indicates that it appears that the munitions were transported from the ODA2 area to the RRA and dumped at the top of the slope. My question is – do we have any historical documentation that the materials in the RRA are from the ODA2 area? There may have been dumping of materials here from other AOCs. In addition, because we have documented instances of live rounds in the RRA, it is clear that not all materials went through a demo process before being dumped here.	Revise the text accordingly; i.e. that the munitions were not just necessarily transported from ODA2 treatment area.	The text on page 5, line 4-6 will be revised to read: “It is speculated that these munitions were transported from the ODA2 demolition site, and possibly from other sites at the RVAAP to Rocket Ridge of ODA2 and dumped at the top of the slope.”
O-2	7/22-23	The text indicates that the subsequent disposal of excavated materials will take place under a separate contract.	This issue will be commented upon at length on the workplan. Suffice it to say that the Ohio EPA position is that the disposal contracts should be in place prior to the contractor starting excavation activities.	The field work portion for the RRA TCRA operations (i.e., Tasks 2 through 10) along with Optional Task 11 – BIP was recently funded in March 2010. At this time it is PIKA’s understanding that due to contractual funding limitations <i>Optional Task #12 - Removal and Disposal of the White Phosphorus Contaminated Materials</i> will be funded and awarded under separate contract in advance of PIKA initiating any of the TCRA excavation activities. Additionally, storage of

				the WP contaminated materials at the RVAAP Wet Storage Area as WMM under the Conditional Exemption (CE) provision of the Munitions Rule (MR) (62 FR 96621) and 40 CFR Part 266 promulgated by the EPA has been authorized. As such, the text will be updated accordingly to indicate that all of the qualifying conditions of the CE of Chapter 14 of DoD 6055.09-STD will be met.
O-3	App E	JJ Leet is listed as the Freedom Township member on the RAB.	Mr. Leet is no longer the Freedom Twp RAB representative. Please contact Freedom Twp to see who is taking his place.	This information will be updated to include the current representative: Mr. Roy Martin Freedom Township 5934 Steeter Rd Mantua, Ohio 44255