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14. ABSTRACT This Public Involvement Plan (PIP) has been developed for the U.S. Army Corps of Engineers, Louisville to support the on-site operations for the Phase II Time Critical Removal Action (TCRA) at the Rocket Ridge Area (RRA) of Open Demolition Area #2.					
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PUBLIC INVOLVEMENT PLAN ADDENDUM

DRAFT
PUBLIC INVOLVEMENT PLAN ADDENDUM
FOR THE PHASE II 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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January 29, 2010

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**DRAFT
PUBLIC INVOLVEMENT PLAN ADDENDUM
For
Phase II Time Critical Removal Action at the
Rocket Ridge Area**

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**Ravenna Army Ammunition Plan
Ravenna, Ohio**

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January 29, 2010

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Prepared for:

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The United States Army Corp of Engineers, Louisville District

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Prepared by:

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1 **1.0 OVERVIEW OF PUBLIC INVOLVEMENT PLAN**

2 **1.1 Overview of the Public Involvement Plan**

3
4 The U.S. Army Corps of Engineers, Louisville District has written this Public
5 Involvement Plan (PIP) to facilitate communication between the community
6 surrounding Ravenna, Ohio and the Ravenna Army Ammunition Plant (RVAAP) during
7 implementation of the Phase II Time Critical Removal Action (TCRA) at the RVAAP
8 Rocket Ridge Area (RRA) of Demolition Area #2 (ODA2). This PIP has been developed
9 to tier under and supplement the 2003 Ravenna Army Ammunition Plant Community
10 Relations Plan. This plan identifies issues of community concern regarding the Phase
11 II TCRA at the RVAAP Rocket Ridge site and serves as a guide for public involvement
12 goals and objectives.
13

14 Federal agencies develop community relations programs to be consistent with the
15 Comprehensive Environmental Response, Compensation and Liability Act of 1980
16 (CERCLA) Section 113(k)(2), as amended by the Superfund Amendments and
17 Reauthorization Act of 1986 (SARA) and the National Oil and Hazardous Substances
18 Pollution Contingency Plan (NCP). It is the policy of the Department of Defense to
19 involve the local community in the environmental restoration process. These
20 requirements are the basis for more comprehensive and effective community relations
21 activities. By identifying the public's concerns, the Army is able to fashion a response
22 that more effectively addresses the community's needs.
23

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

- 26 • Public Involvement Goals and Objectives
27
28 • Site Location, Description, Ownership and History
29
30 • Community Background and Profile
31
32 • Proposed Public Involvement Program

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

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

6 **1.2 Public Involvement Goals and Objectives**

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

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

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

1 **2.0 PROPERTY DESCRIPTION**

2 **2.1 RVAAP Site Location, Description, and History**

3 When the RVAAP Installation Restoration Program (IRP) began in 1989, the RVAAP was
4 identified as a 21,419-acre installation. The property boundary was resurveyed by the
5 Ohio Army National Guard (OHARNG) over a two-year period (2002 and 2003), and the
6 actual total acreage of the property was found to be 21,683 acres. As of February
7 2006, a total of 20,403 acres have been transferred to the National Guard Bureau
8 (NGB) and subsequently licensed to the OHARNG for use as a military training site
9 known as Camp Ravenna. The current RVAAP consists of 1,280 acres scattered
10 throughout Camp Ravenna.

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

23 When RVAAP was operational, Camp Ravenna did not exist and the entire 21,683-acre
24 parcel was a government-owned contractor-operated (GOCO) industrial facility. The
25 RVAAP IRP encompasses investigation and cleanup of past activities over the entire
26 21,683 acres of the former RVAAP. References to the RVAAP in this document are
27 considered to include the historical extent of RVAAP unless otherwise stated. A regional
28 map indicating the location of the RVAAP is presented as Figure 1, Appendix J. A
29 Facility map of the RVAAP is presented as Figure 2, Appendix J.

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

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

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

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

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

28

29 **2.2 Rocket Ridge Site Description**

30

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

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

3 The Rocket Ridge slope was likely used for the discarding of demilitarized munitions,
4 although not all munitions appear to have been completely demilitarized. It appears
5 that these munitions were transported from the ODA2 demolition site to the RRA within
6 ODA2 and dumped at the top of the slope.

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

17

18 **2.3 Progress to Date**

19

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

23

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

35

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

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

22 The white phosphorus contaminated area is roughly oval in shape and is approximately
23 56 feet long and 36 feet wide at its extremes and is an area immediately adjacent to
24 the main dump area that appears to have been used exclusively for the dumping and
25 disposal of discarded components from the M19 white phosphorus grenades. Debris
26 from the area, including visible white phosphorus, extends approximately 15 feet into
27 Sand Creek from the shore line. This area is primarily comprised of tail fin assemblies
28 and fragments from the M19 white phosphorus rifle grenades; however based upon the
29 white phosphorus rifle grenade incident reported on June 18, 2007, it is very likely that
30 intact M19 white phosphorus grenades are co-mingled with the debris within this
31 portion of the RRA. More detailed information relative to the white phosphorus area of
32 the RRA can be found in the *Final Removal Action Report for Time Critical Removal*
33 *Action (TCRA) at the Rocket Ridge Area (RRA) within RVAAP-004-R-01 Open Demolition*
34 *Area #2 MRS*, dated December 17, 2009.

35

1 **2.3.1 Future Action**

2

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

6

7 Specific tasks of the Rocket Ridge Phase II TCRA Project include the following:

8

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

14

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

19

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

24

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

29

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

33

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

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

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

6
7 Task 8 – Process Excavated Soil to remove MEC and all Material Possibly Presenting and
8 Explosives Hazard (MPPEH). This task involves processing all Phase II TCRA excavated
9 soil through a magnetic sorting/screening and inspection process in order to remove
10 MEC, MD and MPPEH items. The resultant soil stockpile will be sampled for disposal at an
11 off-site disposal facility.

12
13 Task 9 – Site Restoration Upon completion of all field-work, the RRA and any associated
14 areas impacted by the Phase II TCRA activities will be graded and seeded.

15
16 Task 10 – Prepare a Removal Action Report (RAR). The report will describe, in detail,
17 the action taken to remove the MEC, MD, and WP contamination at Rocket Ridge.

18
19 Task 11: Repair of Earth Covered Magazines (ECMs). The primary objective of this
20 task is to repair existing ECMs at the RVAAP so that Waste Military Munitions (WMM)
21 can be stored during the execution of MEC investigations and MEC removal activities.

22
23 The USACE, Louisville District is the lead agency responsible for the completion of the
24 Rocket Ridge Project. The USACE selected PIKA International, Inc. (PIKA) as the
25 contractor to implement this project and will coordinate with the Ohio Environmental
26 Protection Agency (Ohio EPA) during the implementation of this project. Rocket Ridge
27 Phase II TCRA field activities are currently scheduled to begin in the spring or early
28 summer 2010. The actual start date will be contingent on approval of the project work
29 plans by all stakeholders.

30 31 **2.4 Installation Restoration Program History**

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

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

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

8
9 The Installation Restoration Program is similar to the U.S. Environmental Protection
10 Agency's Superfund Program. The program fulfills the requirements of the
11 Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and
12 Superfund Amendments and Reauthorization Act (SARA). The Superfund Amendments
13 and Reauthorization Act (SARA), enacted in 1986, amended CERCLA to require public
14 involvement at certain stages of the environmental investigation. See chart below.

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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

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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

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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

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

8

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

19

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

27

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

1 Clearance site, and the Melt Pour Load Lines 2, 3, and 4 being prepped for demolition
2 operations. In 2005, the media and RAB toured Load Lines 2, 3, and 4 and
3 Winklepeck Burning Grounds. In 2006, the media and RAB toured Load Lines 2 and 3
4 and Winklepeck Burning Grounds. In 2007, the media and RAB toured Load Lines 1,
5 2, 3 and 4 and Winklepeck Burning Grounds. In 2008, the media and RAB toured
6 Load Line 4, Central Burn Pits, Winklepeck Burning Grounds Removal Action sites
7 along Lane 1 and the Sand Creek Barriers. In 2009, media and RAB toured Rocket
8 Ridge Area, Ramsdell Quarry, and Load Line 12. Overall, the tours received positive
9 media coverage and enabled the RAB members to voice their approval of the
10 environmental progress being at RVAAP.

11
12 **3.3 Key Community Concerns**

13
14 The most recent RAB meeting was conducted on August 19, 2009 at the Charlestown
15 Township Hall located at 6368 Rock Springs in Ravenna, Ohio. A total of two topics
16 were discussed, one being the Rocket Ridge TCRA Project update which included an
17 introduction to the planned Phase II TCRA activities. A copy of the August 19, 2009
18 RAB Agenda and roster of attendees is provided in Appendix K.

19
20 The Project update was presented by the prime contractor PIKA International, Inc.
21 (PIKA). The presentation included a site description, site history; including site photos,
22 TCRA findings and overview of the planned Phase II TCRA activities including extent &
23 volume of material to be removed at the site.

24
25 In Order to facilitate two-way communications between the community and the Corps'
26 project delivery team, both the RAB members and general public were given the
27 opportunity to ask questions about the Rocket Ridge TCRA Phase I at the conclusion of
28 the presentation. Each question was answered by one or a combination of the Corps'
29 project delivery team.

30
31 There were a total of six (6) questions fielded following the presentation. The key
32 community concerns expressed during the question and answer session include:

- 33
34
- Timeframe for the RRA Phase II TCRA operations.
 - Technique for stream diversion.
 - Main hazards associated with the white phosphorus present at the site.
- 35
36

- 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 Phase II TCRA at the RRA. The PIP outlines the strategy to keep the community involved in the RRA Phase II 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.

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- **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.

1 **4.0 USACE's PUBLIC INVOLVEMENT PROGRAM**

2
3 The USACE Louisville District will be honest, forthright, responsive, clear and proactive in
4 their communications. They will promote and maintain a two-way dialogue between the
5 community and the USACE. Inviting open and honest communications with the community
6 enables the project delivery team to understand and address stakeholder concerns the
7 project and possible remediation with specific attention to health, safety, and
8 environmental issues.

9 The target audiences for this plan include:

- 10 • Stakeholders comprised of members of the general public who express an
11 interest in this site
12
13 • Elected Officials
14
15 • Interest Groups
16
17 • Landowner
18
19 • Media

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

25 **4.1 Public Involvement Plan**

26
27 The USACE Louisville District will continue the public information program that is
28 outlined in the RVAAP September 2003 Community Relations Plan. The program
29 includes community meetings, continuing the proactive communications program with
30 the local and regional media, and providing the community with multiple access points
31 to obtain information on the Phase II TCRA at the RRA.

32 **4.1.1 Community Meetings**

33

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

10

11 **4.1.2 Media Relations**

12

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

- 15 • Inform and educate the local and regional media about the historical and current
16 RRA site activities and why these proposed activities are required;
- 17
- 18 • Offer a tour of the site to the media and other interested stakeholders and show
19 and explain to them the challenges associated with the RVAAP project; and
- 20
- 21 • Keep the media updated and informed about changes in activities and decisions
22 concerning the project.
- 23

24

The media contact list is provided in Appendix F.

25 **4.1.3 Communication Techniques and Actions**

26

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

- 29 • Information repository – locations are provided in Appendix H.
- 30
- 31 • USACE information contact – USACE contact information provided in Appendix A.
- 32
- 33 • Web site – USACE Louisville District <http://www.lrl.usace.army.mil>.

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- 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 Phase II TCRA at the RRA process. These activities comply with the community involvement requirements of the National Contingency Plan and the CERCLA.

1 **Ohio Environmental Protection Agency, NE District - DERR**
2 **Eileen Mohr, Project Manager**
3 **2110 East Aurora Rd**
4 **Twinsburg, OH 44087**
5 Phone: (330) 963-1221
6 Email: eileen.mohr@epa.state.oh.us
7

8 **Ohio Environmental Protection Agency, NE District - DERR**
9 **Todd Fisher, Project Coordinator**
10 **2110 East Aurora Rd**
11 **Twinsburg, OH 44087**
12 Phone: (330) 963-1148
13 Email: todd.fisher@epa.state.oh.us
14

15 **Army Environmental Center**
16 **Mark Krivansky**
17 SFIM-AEC-BRC/ M.E. Krivansky
18 U.S. Army Environmental Center
19 E4480 Beal Rd
20 Aberdeen Proving Ground, MD 21010-5401
21 Office: 410-436-0454
22 Email: mark.krivansky@us.army.mil
23

24 **Ohio Army National Guard**
25 **LTC. Ed Meade**
26 **Camp Ravenna Garrison Commander**
27 1438 State Route 534, SW
28 Newton Falls, OH 44444-8503
29 Office: (614) 336-6560
30 Fax: (614) 336-6796
31 E-mail: william.meade1@us.army.mil
32

33 **Ohio Army National Guard**
34 **Tim Morgan**
35 **Camp Ravenna Environmental Supervisor**
36
37 1438 State Route 534, SW
38 Newton Falls, OH 44444-8503
39 Office: (614) 336-6568
40 E-mail: timothy.m.morgan@us.army.mil
41
42

1 **BRAC Office**
2 **William O'Donnell, Program Manager**
3 Assistant Chief of Staff for Installation Management
4 2530 Crystal Drive,
5 Arlington, VA 22202
6 Office: 703-601-1570
7 E-mail: william.odonnell@us.army.mil

8
9
10 **TACOM**
11 **Jeffrey Gollon**
12 Rock Island Field Office
13 1 Rock Island Arsenal
14 Rock Island, IL 61299-7050
15 Office 309-782-5369
16 Fax 309-782-5425
17 Email: jeffrey.s.gollon@us.army.mil
18
19

**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

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City of Ravenna Health Commissioner

Lynette Blasiman
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lblasiman@ci.ravenna.oh.us

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**APPENDIX C
STATE OFFICIALS**

State Legislators	
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<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>	

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**APPENDIX D
FEDERAL ELECTED OFFICIALS**

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3

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>	

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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
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Mr. Howard Furl Windham Township 9450 Bryant Rd. Windham, Ohio 44288	Mr. JJ Leet Freedom Township 9386 Limeridge Rd. Mantua, Ohio 44255
Ms. Eileen Mohr Ohio EPA	Mr. Brian Miller Trumbull County Commissioner Rep.

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Mr. Jon Barber Portage County Commissioner Representative Office of Homeland Security & Emergency Mgmt. Agency 8240 Infirmary 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. 1038 Ravenna, Ohio 44266	
Updated: January 2009	

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PUBLIC MAILING LIST

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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.

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ADMINISTRATION BUILDING
449 SOUTH MERIDIAN
RAVENNA, OH 44266

TRUMBULL COUNTY
COMMISSIONERS
160 HIGH STREET NW
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MAYOR
210 PARKWAY
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U.S. SENATOR
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37 WEST BROAD STREET, SUITE
300
COLUMBUS, OH 43215

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77 WEST JACKSON BOULEVARD
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PINE STREET EXTENSION
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CONGRESSMAN TIMOTHY RYAN
241 FEDERAL PLAZA WEST
YOUNGSTOWN, OHIO 44503

910TH TACTICAL AIRLIFT
WING
3976 KING GRAVES ROAD
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MR. DEREK ROMITTI
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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

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4 **APPENDIX F**
5 **MEDIA CONTACTS**

6 **Television Stations**

7 **WEWS TV ABC News Channel 5**

8 44 E Exchange St
9 Akron, OH 44328
10 (330) 434-0616
11 (216) 431-3666 fax

12 **WVPX 23 TV**

13 1 S Main Street
14 Akron, OH 44308
15 (330) 434-2323

16 **WVIZ PBS Ideastream**

17 Idea Center @ Playhouse Square
18 1375 Euclid Avenue
19 Cleveland OH 44115-1835
20 (216) 961-6100

21 **WEAO TV Channel 49**

22 1750 Campus Center Dr
23 Kent, OH 44240
24 (330) 677-4549
25 (330) 678-0688 fax
26 <http://www.ch4549.org/>

27 **WBNX – WB**

28 2690 State Rd
29 Cuyahoga Falls, OH 44223
30 (440) 843-5555
31 (330) 929-2410 fax

32 **WOIO- CBS**

33 1717 E 12th Street
34 Cleveland, OH 44114
35 (216) 771-1943
36 (216) 436-5460 fax

1 **WYTV – ABC**

2 3930 Sunset Blvd
3 Youngstown, OH 44512
4 Station: (330) 783-2930
5 Fax: (330) 782-5261

6
7 **WKYC- NBC**

8 1333 Lakeside Ave
9 Cleveland, OH 44114
10 (216) 344-3333
11 (216) 344-3326 fax

12
13 **WKBN - FOX**

14 3930 Sunset Blvd.
15 Youngstown, OH 44512
16 Station: (330) 782-1144
17 Fax: (330) 782-5261

18
19
20

21 **Radio Stations**

22

23 **WJMP 1520 AM**

24 2449 State Route 59
25 Ravenna, OH 44266
26 Station: (330) 678-1520

27

28 **WAPS 91.3 - Quality Rock**

29 Public Radio
30 65 Steiner Avenue
31 Akron, OH 44301
32 Office: 330-761-3099
33 Studio: 330-761-9277
34 Fax: (330) 761-3

35

36 **WNIR – 100 – Talk**

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

41

1 **Clear Channel Radio**
2 6200 Oak Tree Blvd
3 Independence, OH 44131
4 News: (216) 520-2600
5 Newsroom Fax: (216) 901 8133

6
7
8
9 **Newspapers**

10 **Youngstown Publishing Co**
11 PO Box 714
12 Youngstown, OH 44501
13 (330) 744-5023
14 (330) 744-5838 fax
15 <http://www.business-journal.com/>

16
17 **Tribune Chronicle**
18 240 Franklin St SE
19 Warren, OH 4448
20 (330) 841-1600
21 (330) 841-1717 Newsroom fax
22 <http://www.tribunechronicle.com/>

23
24 **Record-Courier**
25 126 N Chestnut St
26 Ravenna, OH 44266
27 (330) 296-9657
28 (330) 296-2698 fax
29 <http://www.recordpub.com/>

30
31 **The Vindicator**
32 135 Pine Ave SE # 208
33 Warren, OH 44481
34 (330) 392-0176
35 (330) 747-6712 Newsroom fax
36 <http://www.vindy.com/>

37
38 **Associated Press**
39 815 Superior Ave E
40 Suite 1203
41 Cleveland, OH 44114-2768
42 (216) 771-2172

1 (216) 771-4218 fax

2

3 **Akron Legal News Inc**

4 60 S Summit Street

5 Akron, OH 44308

6 (330) 376-0917

7 (330) 376-7001 fax

8

9

10 **Akron Beacon Journal**

11 44 E Exchange St

12 Akron, OH 44308

13 (330) 996-3600

14 (330) 376-9235 fax

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

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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

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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.

1
2 **Hydrogeologic Study:** The study of the geology of groundwater, with particular
3 emphasis on the chemistry and movement of water.
4

5 **Information Repository:** A place where current information, technical reports, and
6 reference documents concerning a U.S. Army Corps of Engineers Environmental
7 Restoration Program site are stored. The Information Repository is usually in a public
8 library near the site and is available for public access and review.
9

10 **Monitoring Well:** A well used to collect groundwater samples for water quality
11 analysis or to measure groundwater levels.
12

13 **Munitions and Explosives of Concern (MEC):** This term, which distinguishes
14 specific categories of military munitions that may pose unique explosives safety risks
15 means: (A) Unexploded ordnance (UXO), as defined in 10 U.S.C. 101(e)(5)(A) through
16 (C); Discarded military munitions (DMM), as defined in 10 U.S.C. 2710 (e)(2); or (C)
17 Munitions constituents (e.g., TNT, RDX) as defined in 10 U.S.C. 2710 (e)(3), present in
18 high enough concentrations to pose an explosive hazard.
19

20 **Operation and Maintenance:** Activities conducted after a Superfund site action is
21 completed to ensure that the action is effective.
22

23 **National Contingency Plan (NCP):** The federal regulation that guides determination
24 of the sites to be corrected under both the Superfund program and the program to
25 prevent or control spills into the surface waters or elsewhere.
26

27 **Potentially Responsible Party (PRP):** Any individual or company – including
28 owners, operators, transporters, or generators – potentially responsible for, or
29 contributing to a spill or other contamination at a Superfund site. Whenever possible,
30 through administrative and legal actions, EPA requires PRPs to clean up hazardous sites
31 they have contaminated.
32

33 **Preliminary Assessment (PA):** The first phase of the U.S. Army Corps of Engineers'
34 Environmental Restoration Program. It consisted primarily of past and present Ravenna
35 Army Ammunition Plant employee interviews and a thorough review of operational and
36 historic records of the site. This draft preliminary assessment evaluated areas of
37 potential concern that may need further investigation.
38

39 **Record of Decision (ROD):** A public document that explains which cleanup
40 alternative(s) will be used at National Priorities List sites where, under CERCLA, Trust
41 Funds pay for the cleanup.
42

1 **Remedial Action (RA):** The actual construction or implementation of the remedy
2 selected to contain, control, or remediate an identified site. This action follows the
3 Remedial Design phase of the Environmental Restoration Program.
4

5 **Remedial Design (RD):** The development of technical specifications and engineering
6 design necessary to carry out a Remedial Action.
7

8 **Remedial Investigation/Feasibility Study (RI/FS):** Investigation and analytical
9 studies conducted at an Environmental Restoration Program site. The investigation and
10 study fully define the type and extent of the environmental impacts, establish criteria
11 for remediating the site, identify and screen potential alternative remedies, and analyze
12 the technologies and costs related to each potential alternative remedy.
13

14 **Resource Conservation and Recovery Act (RCRA):** This law establishes a
15 framework to achieve environmentally sound management of both hazardous and non-
16 hazardous wastes. RCRA also promotes resource recovery (recycling) techniques and
17 methods to reduce the generation of hazardous waste.
18

19 **Site Inspection (SI):** The second phase of the Environmental Restoration Program. A
20 Site Inspection begins if the Preliminary Assessment suggests the existence of
21 environmental impacts at a particular site. This second phase involves on-scene
22 inspection and sampling of soil, surface water, and groundwater. The samples are
23 analyzed to confirm the presence or absence of environmental impacts.
24

25 **Superfund Amendments and Reauthorization Act (SARA):** A federal law enacted
26 by Congress in 1986. The Superfund Amendments and Reauthorization Act amended
27 the Comprehensive Environmental Response, Compensation and Liability Act of 1980.
28 This Act sets cleanup standards that strongly favor permanent remedies, gives the
29 Environmental Protection Agency more control over cleanup procedures and provides
30 an opportunity for the State EPA and the community to comment on the recommended
31 cleanup alternative. This Act sets health and safety standards for workers at cleanup
32 sites.
33

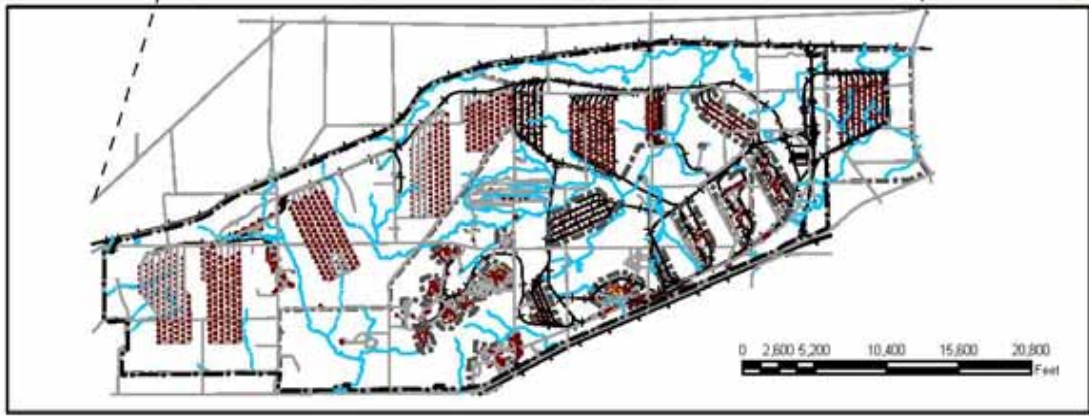
34 **Surface Water:** Ground-level bodies of water, such as rivers, lakes and streams.
35

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

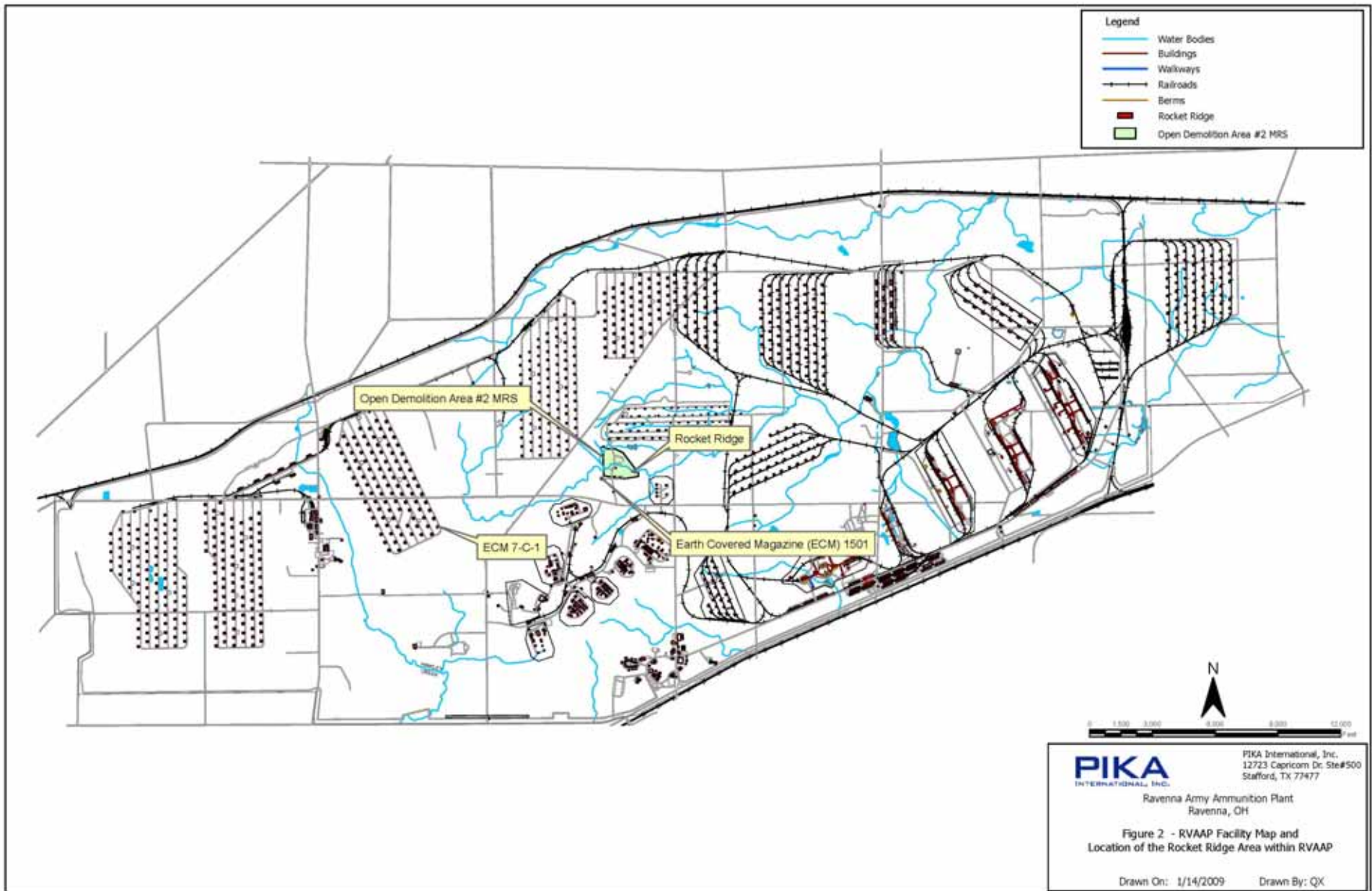


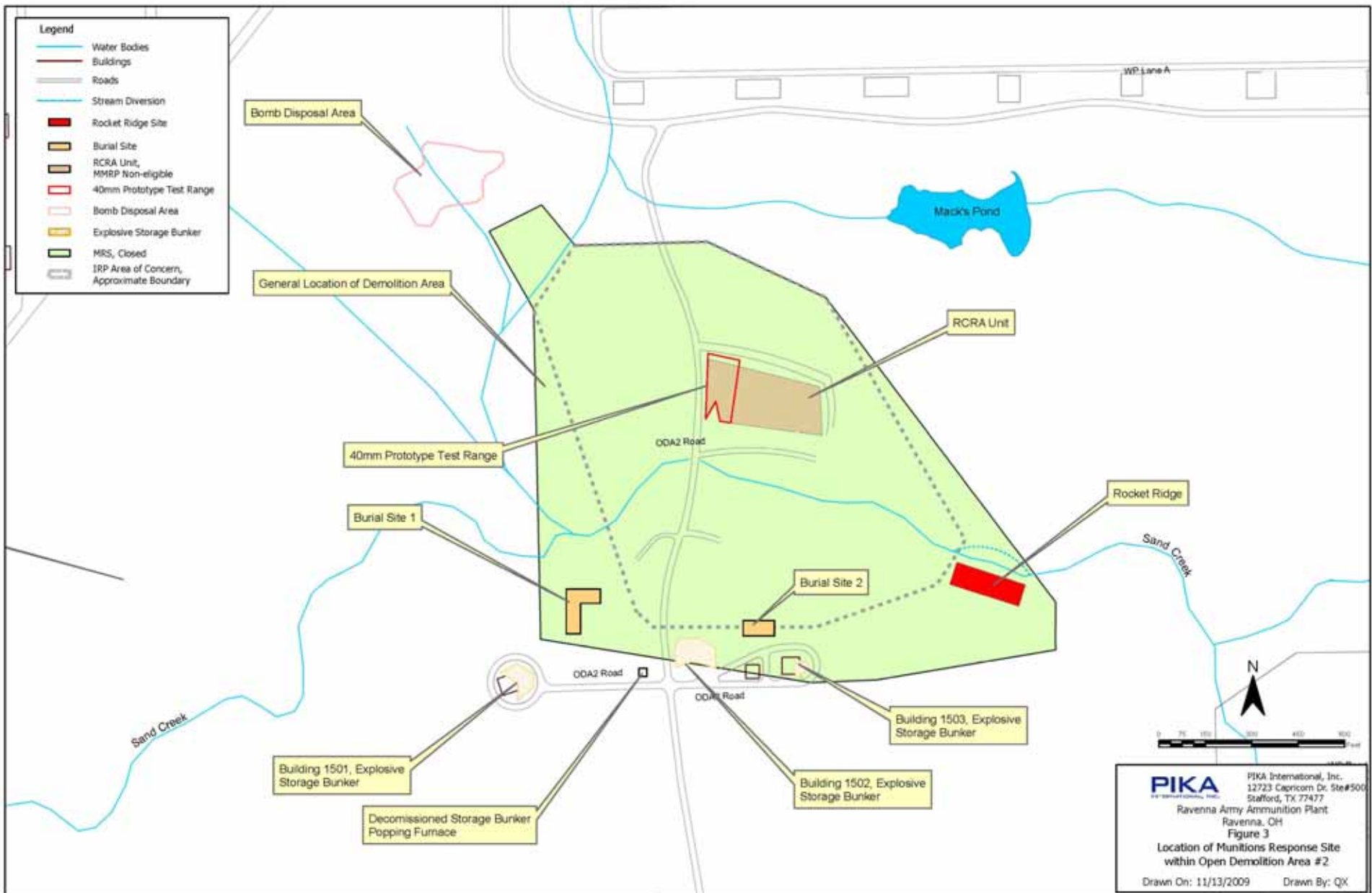
PIKA
INTERNATIONAL, INC.
12723 CAPRICORN DR., STE #500
STAFFORD, TX 77477

Ravenna Army Ammunition Plant
Ravenna, OH

FIGURE 1 - GENERAL LOCATION AND ORIENTATION OF RVAA

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





- Legend**
- Water Bodies
 - Buildings
 - Roads
 - Stream Diversion
 - Rocket Ridge Site
 - Burial Site
 - RCRA Unit, MMRP Non-eligible
 - 40mm Prototype Test Range
 - Bomb Disposal Area
 - Explosive Storage Bunker
 - MRS, Closed
 - IRP Area of Concern, Approximate Boundary

PIKA
 INTERNATIONAL, INC.
 PIKA International, Inc.
 12723 Capricorn Dr. Ste#500
 Stafford, TX 77477
 Ravenna Army Ammunition Plant
 Ravenna, OH
 Figure 3
 Location of Munitions Response Site
 within Open Demolition Area #2
 Drawn On: 11/13/2009 Drawn By: QX

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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

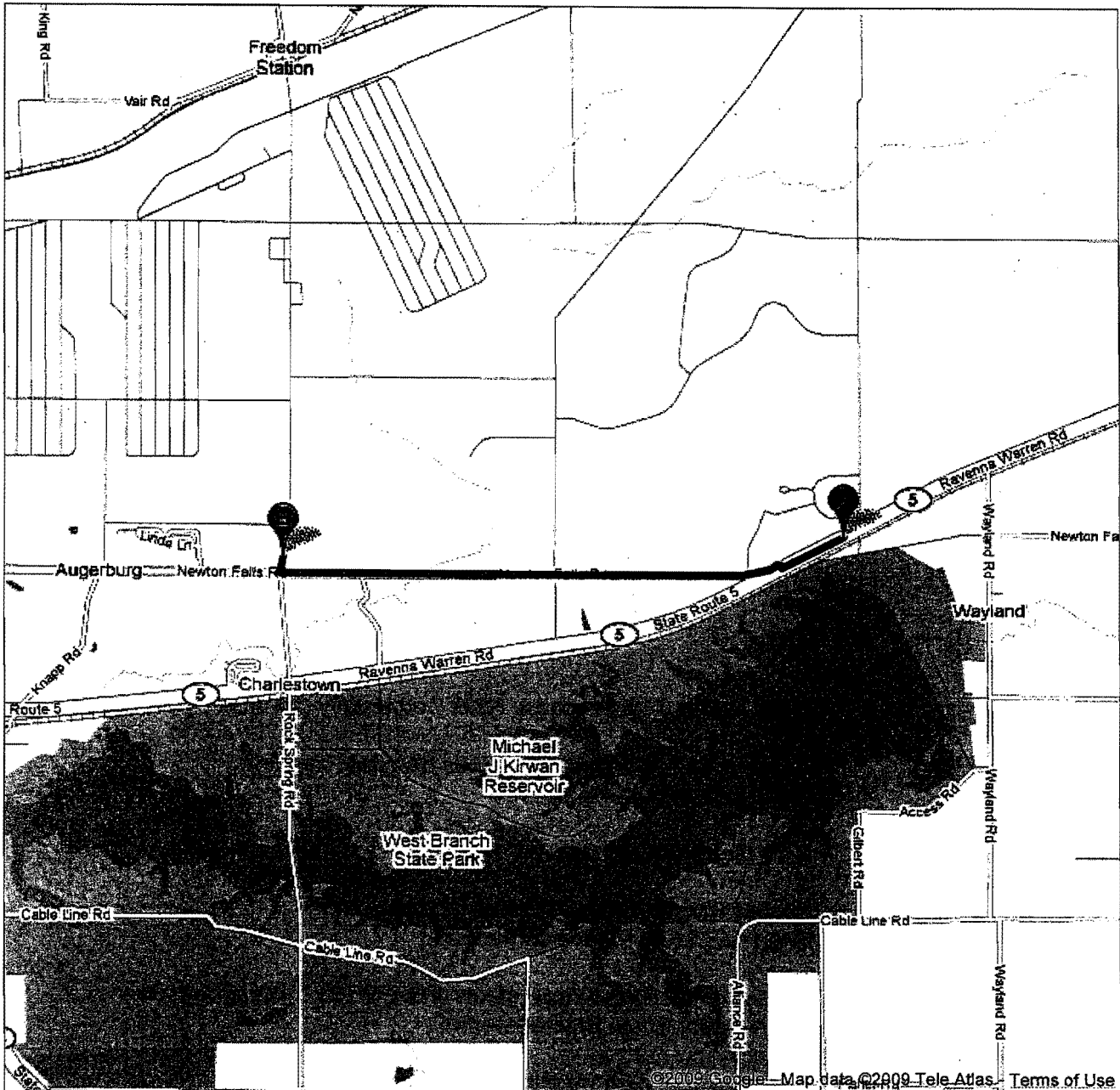
TIME: 6:00 P.M. – 7:40 P.M.

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** go 2.9 mi
total 3.2 mi
 About 6 mins
- 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	Rich Wargal	5820 Wayland 44266	
4	George Tompkins	PO Box 43 Wayland 44285	
5	Bill Chase	5731 Cannon Drive Kent 44240	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.	
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