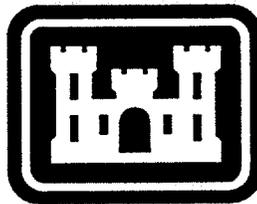


FINAL

Installation Community Relations Program

Redstone Arsenal, Alabama

Prepared for:



U.S. ARMY CORPS OF ENGINEERS
Savannah District

Contract: DACA 21-91-D-0024

SEPTEMBER 29, 1993

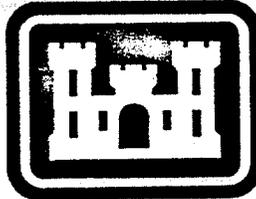
EBASCO ENVIRONMENTAL
A Division of Ebasco Services Incorporated

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EBASCO SERVICES INCORPORATED**

FINAL

INSTALLATION COMMUNITY RELATIONS PROGRAM

REDSTONE ARSENAL, ALABAMA

SEPTEMBER 1993

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SECTION 1.0 INTRODUCTION

1.1 PROGRAM PURPOSE

The U.S. Army has been evaluating past hazardous waste management practices at Redstone Arsenal in Alabama. Studies are being performed to evaluate the practices in accordance with the requirements of the Resource Conservation and Recovery Act of 1976 (RCRA), required at all active facilities managing hazardous materials.

RCRA requires identification and corrective action at any solid waste management unit (SWMU) located on the installation which has the potential for releasing hazardous constituents to the environment. A SWMU is defined as any discernable waste management unit at a RCRA facility from which hazardous constituents might migrate, irrespective of whether the unit was intended for the management of solid and/or hazardous waste. This does not include units in which wastes have not been managed, product storage areas, or accidental spills from production areas. There are 289 known or potential SWMUs identified on the Arsenal. Numerous corrective actions have begun and are in various stages of completion.

The purpose of the Installation Community Relations Program (CRP) is to provide the mechanism for the Installation to pursue an active role in addressing environmental quality issues as part of their relationship with neighboring communities. This CRP will address the general community relations and public involvement activities available to provide interested community members appropriate and effective opportunities to be kept informed of and involved in decision-making relative to the numerous environmental restoration activities at Redstone Arsenal (RSA).

For the reader's convenience, a fold-out listing of abbreviations and acronyms is provided at the end of this document.

1.2 DEFENSE ENVIRONMENTAL RESTORATION PROGRAM

In 1986, Congress established the Defense Environmental Restoration Program (DERP) under Public Laws 99-190 and 99-499. The Department of Defense (DOD) is mandated to meet the requirements of DERP with the goal to identify, assess and remediate environmental problems, to protect the health and safety of installation personnel and the public, and to protect the quality of the environment.

Two sub-programs currently exist under DERP: the Formerly Used Defense Sites (FUDS) program, and the Installation Restoration Program (IRP). FUDS applies to real property formerly controlled by the Army. The IRP applies to real property currently controlled by the Army. The SWMU corrective actions at Redstone Arsenal are being performed under the IRP.

This Installation CRP has been prepared to assist Redstone Arsenal in implementing a community relations program during DERP IRP activities as directed by Army Regulation (AR) 200-1, *Environmental Protection and Enhancement*. Chapter 9 of AR 200-1, *Environmental Restoration Programs*, identifies the DERP mandates as including:

- 1) Protecting the health and safety of installation personnel and the public and the quality of the environment from threats posed by uncontrolled hazardous materials.
- 2) Keeping the U.S. Environmental Protection Agency (EPA) and state regulatory agencies informed of site activities and solicit their comments regarding Army plans and reports.
- 3) Promoting the establishment of a comprehensive public affairs program to keep the public informed of activities performed and problems encountered under DERP.

- 4) Soliciting public comments on proposed actions and considering public comments in decision-making as defined by the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA).

AR 200-1 encourages Army installation Commanders to foster open, two-way communication with the local communities during the environmental restoration process - a frequently lengthy, complex and technical process.

Supporting documents guiding Army community relations implementation during IRP activities include:

- *Community Relations in Superfund: A Handbook*. January 1992 (U.S. Environmental Protection Agency).
- *Commander's Guide to Public Involvement in the Army's Installation Restoration Program*. November 1990 (U.S. Army Toxic and Hazardous Materials Agency).

1.3 CRP DEVELOPMENT

This Final CRP is based on documents provided by the Army, interviews with representatives from the U.S. Army Missile Command (MICOM) Public Affairs and Environmental Management Offices at Redstone Arsenal, and telephone interviews with local and community representatives.

To gain an understanding of the community perceptions regarding environmental restoration at Redstone Arsenal, local and state officials were interviewed, the appropriate agency contacts were established, and public contacts and interested parties were identified. This phase of the CRP provides the following overview:

- Site Background - Description, Regulatory History and Past Activities
- Community Profile and General Issues of Concern
- Community Relations Program - Objectives, Activities and Milestone Schedule

No private citizens were contacted during the development of the CRP. Communications were made with community representatives of the existing community relations organizations established by the Army and the U.S. EPA regarding Redstone Arsenal activities. Initial listings of public contacts and potentially interested parties, as well as news media contacts and resources, are included as Appendices A and B, respectively. These listings are used to create mailing lists and are updated and expanded as requests for inclusion are received and individuals or organizations are identified.

1.4 INSTALLATION RESTORATION PARTICIPANTS AT REDSTONE ARSENAL

Army installations are provided engineering and construction services through the responsible U.S. Army Corps of Engineers (USACE) offices and their contractors. Each USACE district or division office has a particular role in the remediation of a DERP site. For Redstone Arsenal sites, the Savannah (Georgia) District is responsible for the remedial investigations and studies, such as the RCRA Facility Investigations (RFIs), Corrective Measure Studies (CMSs), and any remedial designs, including Interim Corrective Measure (ICM) Designs. The Huntsville (Alabama) Division has supported the Savannah District in some of these activities, but has primary jurisdiction over military ordnance areas. The Mobile (Alabama) District is responsible for remedial action implementation (i.e., construction) at a site. The Missouri River Division in Omaha (Nebraska) is responsible for Rapid Response actions at Redstone Arsenal.

The U.S. Army Environmental Center (USAEC) is responsible for managing the Army IRP and has developed the guidance for public participation at IRP sites. Formerly known as the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA), the USAEC manages environmental studies and provides technical oversight to environmental restoration actions on Army installations. A description of the IRP and USAEC responsibilities is provided in Appendix C.

The role of the U.S. Army Environmental Hygiene Agency (USAEHA) in the IRP is to review health risk assessment documents and recommend approval or disapproval to the Army Surgeon General. Other USAEHA actions are the result of specific requests from Army installations for technical assistance.

1.5 IRP COMMUNITY LIAISON

The following Army representative has been identified as the point of contact for the Army IRP activities under the DERP Program:

Ms. Pamela Rogers, Community Relations Specialist
Public Affairs Office (AMSMI-IN)
U.S. Army Missile Command
Redstone Arsenal, Alabama 35898-5020
(205) 842-0561

Contractors at Redstone Arsenal do not have authority to provide information to the public. All questions or concerns from the community and the media regarding the IRP activities at Redstone Arsenal are to be referred to Ms. Rogers. The appropriate technical personnel and responsible Army representatives will be consulted regarding the specific site to assure current, appropriate and accurate information is being released. This also assures that public perceptions are monitored and that the information and participatory needs of the community are being met.

SECTION 2.0 BACKGROUND

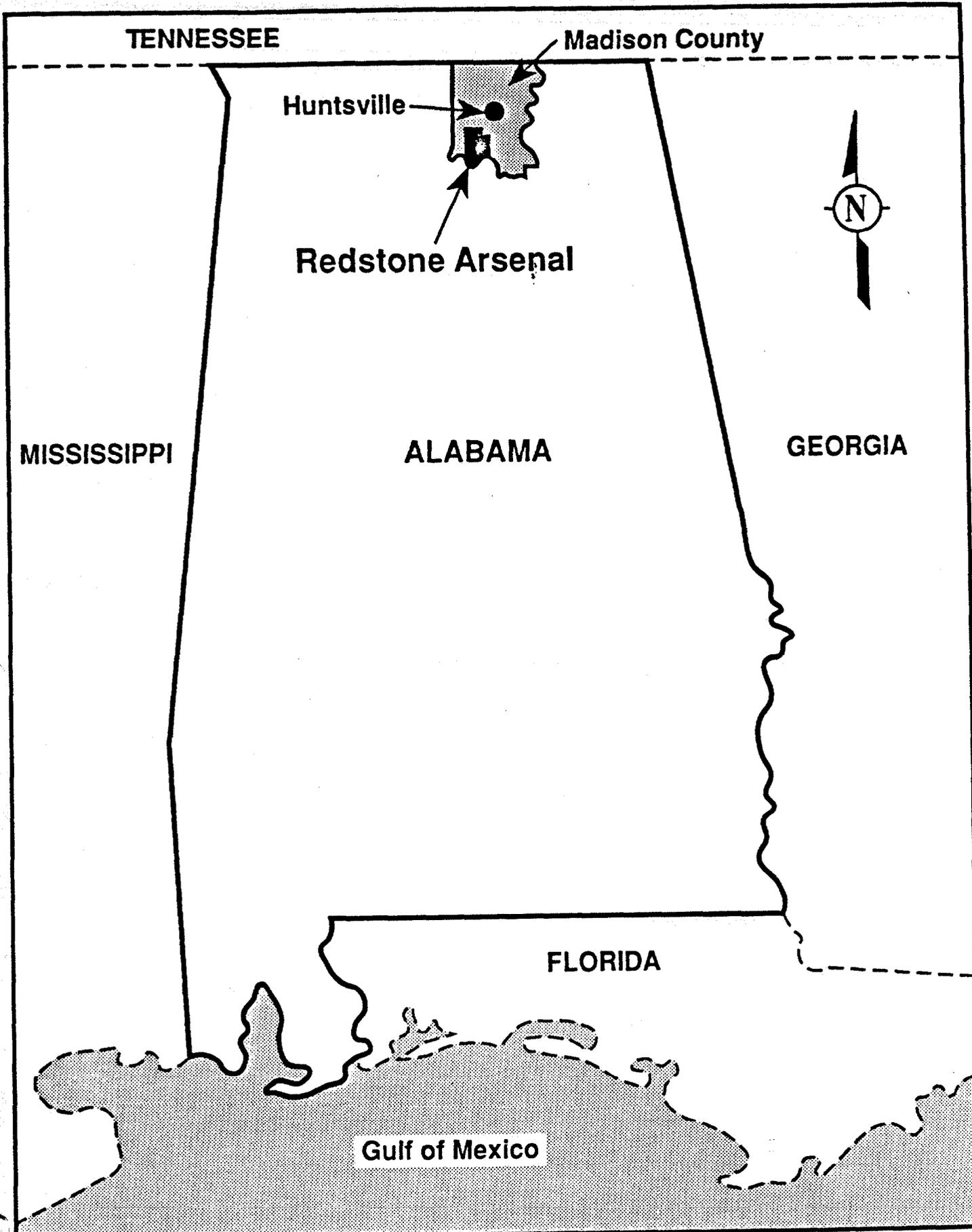
2.1 LOCATION AND DESCRIPTION OF REDSTONE ARSENAL

Redstone Arsenal is located in north central Alabama in the southwestern portion of Madison County as shown in **Exhibit 1: Location of Redstone Arsenal**. Redstone Arsenal is bounded by the City of Huntsville to the north and east, the municipalities of Madison and Triana to the west and the Tennessee River to the south. The population of Madison County exceeds 238,000. Huntsville has a population of approximately 160,000. The city of Madison (population 17,000) and town of Triana (population less than 1,000) are northwest and southwest of Redstone Arsenal, respectively.

Redstone Arsenal is a DOD facility under the jurisdiction of the U.S. Army Materiel Command (AMC), the major Army command responsible for insuring the weapons, equipment, and logistic readiness for the Army. Redstone Arsenal houses, among others, the MICOM, the U.S. Army Test, Measurement and Diagnostic Equipment Support Group, and the Ordnance Missile and Munitions Center. Other activities on Redstone Arsenal include the George C. Marshall Space Flight Center (MSFC) operated by the National Aeronautics and Space Administration (NASA). Thiokol Inc., a government-owned contractor-operated facility is also located on Redstone Arsenal. Thiokol is involved in the production of missile rocket motors and munitions-related materials for the Army.

Approximately 1,000 military families reside in government quarters on Redstone Arsenal and approximately 31,500 government employees and contractors work at the facility. Principal roadway access to the Huntsville area and Redstone Arsenal is provided by U.S. Highways 72, 231 and 431 and Interstate Highways 65 and 565. The area surrounding Redstone Arsenal is of mixed land use including light industry, residential, commercial and agricultural zoning.

Exhibit 2: Site Map of Redstone Arsenal, defines Redstone Arsenal boundaries. Redstone Arsenal encompasses approximately 38,300 acres. Of that area, 1,841 acres in the central part of Redstone Arsenal are leased to the MSFC under the jurisdiction of NASA. The remaining



**EXHIBIT 1 REGIONAL LOCATION MAP OF REDSTONE ARSENAL,
MADISON COUNTY, ALABAMA**

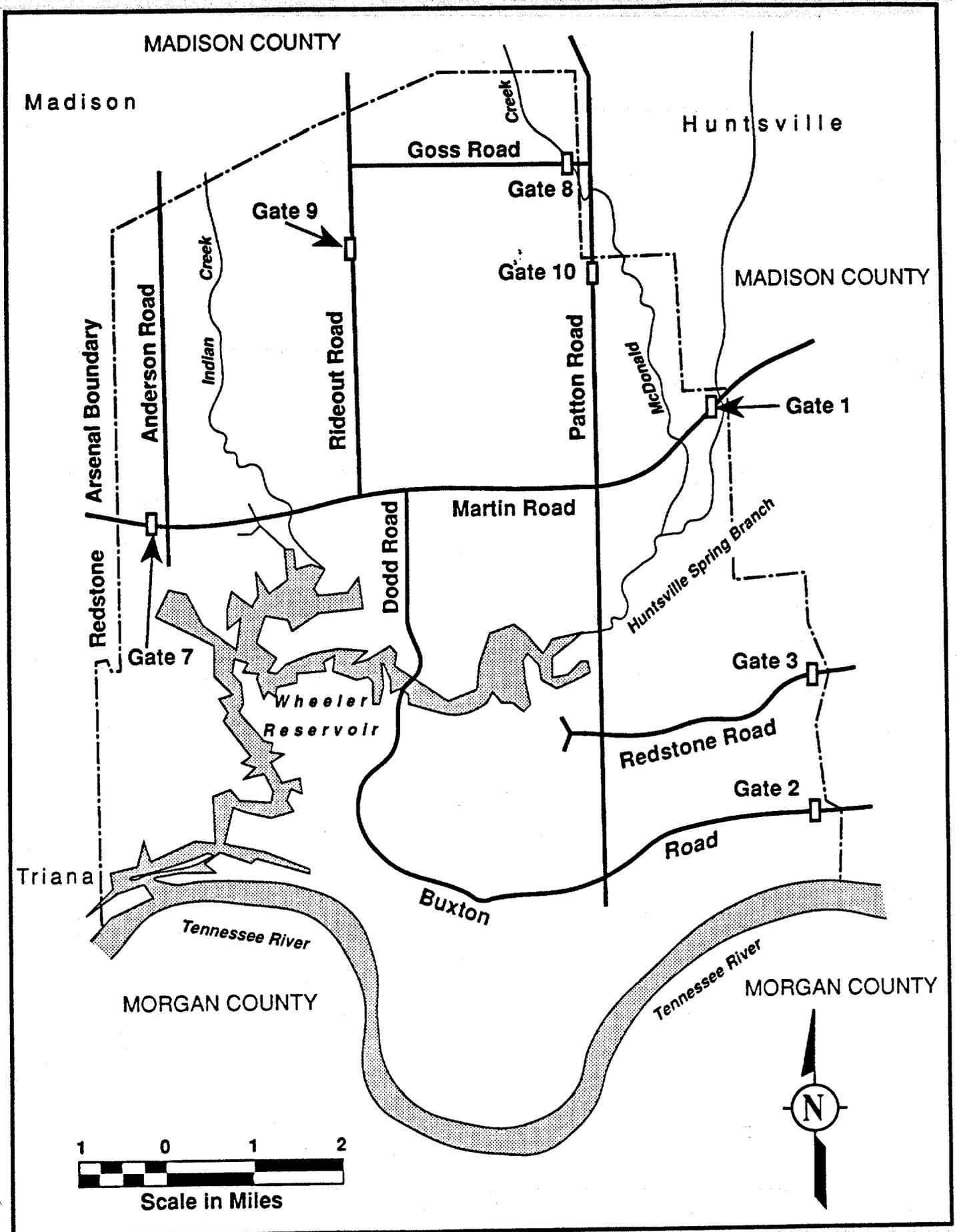


EXHIBIT 2 SITE MAP OF REDSTONE ARSENAL, ALABAMA

36,459 acres are controlled by the Department of the Army and support many land use functions. Approximately 2,900 acres are owned by the Tennessee Valley Authority (TVA) and Wheeler National Wildlife Refuge owns 4,100 acres within the boundaries of Redstone Arsenal. Approximately 15,500 acres of Redstone Arsenal are woodlands and 9,200 acres are leased for agricultural use. Over 10,200 acres include maintained grassy areas, buildings, roads, and Redstone Arsenal facilities.

The topography of Redstone Arsenal is gently rolling with a general slope from north to south toward the Tennessee River. Elevations generally range from 765 feet above mean sea level (msl) at the northern installation boundary to 556 feet above msl at the southern boundary. Topographically high areas are Weeden and Madkin Mountains in the northern portion, reaching a maximum elevation of 1,239 feet above msl. Topographically low areas include valleys and flood plains of the Tennessee River and its tributaries.

The Tennessee River marks the southern boundary of Redstone Arsenal and flows west. Huntsville Spring Branch, McDonald (also called McDonnell) Creek, and Indian Creek are major tributaries within Redstone Arsenal that flow relatively southward to the Tennessee River. All surface drainage leaving Redstone Arsenal eventually empties into the Tennessee River. Approximately 90 percent of this surface drainage passes through Wheeler Reservoir, located in the central and southwest portion of Redstone Arsenal, enroute to the Tennessee River.

Numerous wetlands are associated with the Tennessee River. A significant portion of Redstone Arsenal is topographically below the 100-year flood level of 572.5 feet above msl.

2.2 GOVERNMENT INVOLVEMENT

2.2.1 History of Activities

Several Federal and state agencies and authorities have been involved with environmental issues at Redstone Arsenal. Beginning in 1978, TVA issued a fish consumption advisory along an 11-mile stretch of two tributaries of the Tennessee River on the installation, the Huntsville Spring

Branch and Indian Creek. The Triana/Tennessee River area became a Superfund site in 1983 under investigation for contamination by dichloro-diphenyl-trichloroethane, the insecticide commonly known as DDT, and is being successfully remediated by the Olin Corporation under a Consent Decree.

U.S. EPA gave the Alabama Department of Environmental Management (ADEM) regulatory oversight for Redstone Arsenal's RCRA facilities. This has included review of permits and monitoring well data for the numerous test wells around Redstone Arsenal. ADEM inspections have resulted in Notices of Violation (NOVs) and recommendations that corrective measures be implemented at some of the SWMU sites.

Restoration investigations which started in the 1980s were presented in numerous study reports made available starting in 1989. The U.S. EPA initiated a RCRA Facility Assessment (RFA) to determine if there had been any releases of concern at any potential SWMUs. Contaminants identified include arsenic, benzene and trichloroethene (TCE). USACE Huntsville Division completed a comprehensive SWMU identification program which identified the 289 potential SWMUs on Redstone Arsenal. Of these, 211 are on Army property with the remaining on the NASA/MSFC property. Approximately 15 SWMUs are suspected of contaminating groundwater and needing remediation. However, all are being assessed including those SWMUs at the MSFC for which the Army is responsible.

2.2.2 Regulatory Guidance

RCRA and CERCLA/SARA are the two Acts passed by Congress and enforced by the U.S. EPA which apply to the management (i.e., handling, storage and/or disposal) of hazardous waste and which guide the course of action taken at any hazardous waste management facility. In general, RCRA regulates ongoing hazardous waste management activities at active sites. Measures taken to correct RCRA regulated activities are referred to as "corrective actions." Redstone Arsenal has been implementing numerous corrective actions, such as RFAs, RFIs, CMSs, and ICMs, at several SWMUs.

CERCLA/SARA regulates cleanup of hazardous waste from past management activities on abandoned sites and on sites which meet other specified criteria. CERCLA sites are commonly referred to as Superfund sites due to the Trust Fund of monies made available to immediately respond to the often abandoned sites. DERP is the Army equivalent to the EPA's Superfund program, in part because of the quality standards for investigations which must be met. Clean-up activities performed to CERCLA standards are referred as "remedial actions." After the preliminary assessment/site investigation (PA/SI) determines that more studies are needed, a Remedial Investigation (RI) and Feasibility Study (FS) are performed which result in a Proposed Plan for site cleanup. An interim remedial action or immediate response action (IRA) may be performed at any time when there is an imminent or immediate threat to public health or the environment. The remedial design and action (RD/RA) can begin after the Record of Decision (ROD) has been made with the consideration of public comments and responses at a formal public meeting. The Army refers to clean-up activities collectively as "restoration." A mixture of all three terms - corrective, remedial and restoration actions or measures - are used at Redstone Arsenal.

To implement CERCLA, the EPA promulgated the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) in 1982. Appendix A of the NCP is the Hazard Ranking System (HRS), a screening device whereby a site is eligible for inclusion on the National Priorities List (NPL) if it has an HRS score of 28.50 or greater. The NPL (Appendix B of the NCP) is a listing of the nation's hazardous waste sites which are regulated by the EPA or by other Federal agencies under a Federal Facilities Agreement/Interagency Agreement (FFA/IAG). Environmental responses will be closely coordinated within this agreement with ADEM, the U.S. EPA, and any designated local agencies and officials or as determined by any Consent Decree.

2.2.3 Regulatory Status

On March 13, 1989, the EPA announced a policy for placing Federal facility sites on the NPL if they meet the eligibility criteria even if the Federal facility also is subject to the corrective action authorities of RCRA Subtitle C. Redstone Arsenal (both Army and NASA portions of

the installation) was proposed for inclusion in the Federal Facilities Section of the NPL on June 23, 1993. However, since the EPA is not the lead agency at these Federal sites, Redstone Arsenal would not have access to the Trust Fund which is made available to NPL sites. The DERP is managed and funded through its own account by the DOD, which has delegated management and implementation to the individual military services. The DOD budget line item that funds DERP is called the Defense Environmental Restoration Account (DERA). NASA is funded through separate resources. Therefore, inclusion on the NPL will not affect the funding source, but will increase the funding priority for Redstone Arsenal.

2.3 PUBLIC INVOLVEMENT AND INFORMATION

A Public Involvement and Response Plan (PIRP) is required for all DERP properties that have sites included on or proposed for inclusion on the NPL. Because of the numerous SWMU sites under investigation on Redstone Arsenal, this Installation CRP has been developed as the core document from which site-specific PIRPs can be prepared. Implementation of the Installation CRP will be through the supplemental PIRP throughout the corrective measures at the specific site.

Interviews have been conducted with public officials to determine the public's concerns and needs. The interviews were used in the CRP/PIRP to identify local resources and suggests ways for local residents and concerned citizens to receive information regarding current studies at the IRP sites. The CRP/PIRP also identifies points of contact to assure appropriate review and responses to any concerns identified from the local community.

A public information repository has been established for public access to the data and reports regarding site investigations, studies, and other activities conducted under the Redstone Arsenal IRP. Reports are generally released to the repository in final form after regulatory review. Press releases and fact sheets are also included in the collection and will be updated as information becomes available. The information contained in the repository also is available on-site at the MICOM Public Affairs Office at Redstone Arsenal.

Upon availability of a draft final CMS (which identifies final corrective measure alternatives for a given site), a press release and public notice will announce the availability of the document for a 45-day public comment period including a public meeting. The public will be asked to comment on the preferred and other alternatives from among those which were studied for the corrective action.

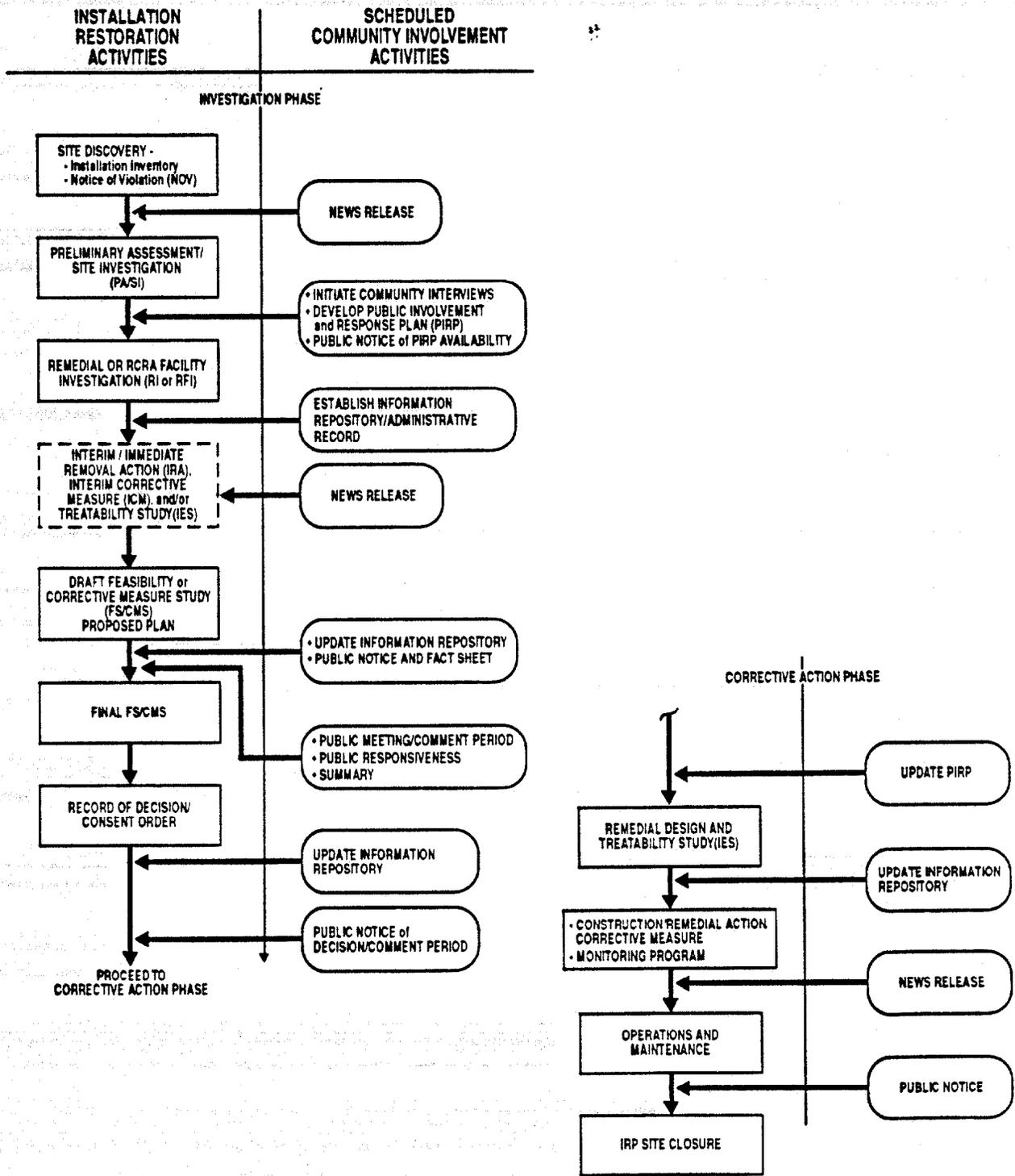
A public notice will be placed in the local newspapers and distributed through a mailing requesting community involvement to discuss the RFI/CMS (or RI/FS) findings at a public meeting. These meetings will be hosted by the MICOM Public Affairs Office at Redstone Arsenal and supported by the responsible USACE office. Local, state and Army representatives will be in attendance. The public will have an opportunity to ask questions directly to a panel of site investigators, as well as to the attending representatives.

Technical Assistance Grants (TAGs) of up to \$50,000 per NPL site may be awarded to a single representative group of individuals affected by an NPL Superfund site. These grants provide community members with the means to hire their own technical advisor to review and comment on technical aspects of scheduled clean-up activities. Grantees can receive two scheduled additional \$25,000 extensions. However, EPA is currently developing a policy on how these grants will be awarded and administered at Federal Facility Sites.

The Army encourages the public to visit the information repositories and attend any public meetings to become more knowledgeable about the environmental studies at Redstone Arsenal. If you would like to be placed on a mailing list to receive future notices regarding the DERP activities, please complete a copy of the form provided at the end of this document and mail to the address provided.

The Army fully supports the public involvement programs that CERCLA/SARA and the NCP require. The generalized DERP process reflecting the RCRA and CERCLA technical activities with supporting public involvement activities is shown in **Exhibit 3**.

EXHIBIT 3 GENERALIZED DERP PROCESS FLOW CHART



SECTION 3.0 COMMUNITY PROFILE AND GENERAL ISSUES OF CONCERN

3.1 COMMUNITY PROFILE

3.1.1 Madison County/City of Huntsville

At the time of the 1990 Census, the population of Madison County was 238,912, an increase of 21 percent since the 1980 Census was performed. The population of the City of Huntsville was estimated at 159,789. Demographic characteristics showed that approximately 77 percent of the population identified themselves as white, 20 percent as black, 2 percent as Asian or Pacific Islander, and 1 percent each as Hispanic origin (of any "race") and American Indian, Eskimo or Aleut. Almost 51 percent of the population of Madison County is female. Madison County has one of the lower median ages (31.9) in the state of Alabama. The portion of the population between the ages of 21 and 59 is one of the largest in the state. Madison County's proportional ratio of productive working labor to total population is the second highest in the state. This is a result of high technology research and production activities in the area's economy which have attracted a substantial portion of the county's labor force from outside the region.

Once a rural town, within the past 30 years the City of Huntsville has emerged as a center for military and space technology. The shift in Madison County's economy from an agrarian base to high technology has resulted in the development of thriving financial and retail sectors. The town and subsequent county development began with the consolidation of research and development for U.S. Army rocket and missile projects at Redstone Arsenal. Huntsville's Cummings Research Park is the second largest research park in the United States. Presently over 24 percent of Huntsville's employment comes from the rocket and missile research located at Redstone Arsenal or Cummings Research Park.

Agriculture remains an important component to the economy of the county. However, Madison County distinguishes itself from neighboring counties which are more reliant on agricultural output with a per capita income 11 percent above the national average and over 40 percent

higher than the statewide average. Nearly 27 percent of 98,000 households earn over \$50,000 annually. Single family homes predominate with a substantial number of apartment homes.

3.1.2 Redstone Arsenal

Redstone Arsenal is one of the major employers in Madison County. Its effect on the local economy and labor market is evident through the direct employment of civilian and military personnel and civilian contractors. Between 65 and 70 percent of current Redstone Arsenal employees reside within Madison County and a total of 80 to 85 percent reside within the Huntsville Metropolitan Statistical Area, which includes Madison, Limestone and Marshall Counties. During 1991, Redstone Arsenal was responsible for the direct and indirect support of over 60,000 people. Approximately 17.5 percent of the county's population is directly effected by Redstone Arsenal operations.

Family housing for 1,165 military families and troop housing for over 2,850 military personnel are located in the northeastern part of the installation on both sides of Goss Road. The largest population densities adjacent to Redstone Arsenal are in Huntsville on the north and east boundaries. Residential areas have developed more recently along the northwest portion of Redstone Arsenal in and around the city of Madison. On the western boundary is the Huntsville-Madison County Airport and other commercial/industrial land uses beyond the developing residential areas. Isolated farm residences are in the areas south of and across the Tennessee River from Redstone Arsenal. The Wheeler National Wildlife Refuge extends onto large portions of Redstone Arsenal from the southwest.

Since the installation's primary mission is the development and testing of missile systems, occasional noise from missile tests has been a part of the regional noise environment for the past 40 years. Open burning/open detonation activities, considered unacceptable for noise sensitive land uses such as residences and office operations, are isolated in the southern portion of the installation. Nonetheless, noise complaints have increased at Redstone Arsenal as residential developments have encroached within the Installation Compatible Use Zones (ICUZs) which are identified as noise impact areas. Noise complaints are typically in response to aircraft noise

from the airfield in the northwest portion of Redstone Arsenal and munitions testing elsewhere on the installation. Complaints registered with the MICOM Public Affairs Office at Redstone Arsenal are recognized as generally from newcomers to the Redstone Arsenal community who had not anticipated the disruption or become accustomed to the occasional impulse noise.

The ICUZ Plan developed for Redstone Arsenal has shown these noises do not have any significant impact on off-post operations or housing. MICOM Public Affairs Office at Redstone Arsenal continues to provide news releases and public notices of noise generating activities at the installation in the local papers. The MICOM Public Affairs Office at Redstone Arsenal realizes it is an ongoing educational need to inform the community of the Redstone Arsenal mission, and seeks their cooperation.

3.1.3 City of Madison

The City of Madison has a fast growing suburban population of almost 20,000 residents to the northwest of Redstone Arsenal. Located near the municipal airport, Madison now extends into Limestone County. Its growth is attributed to transportation, industrial and commercial developments. The largest employers are Boeing and Chrysler, which largely support the military, and Intergraph, the computer design company. Many residents work at Research Park in Huntsville. Madison has a five percent African-American population and a growing Asian and Hispanic population. Its growth has strained the small town infrastructure. The public water supply is from groundwater wells. The Drake Well, which serves Madison, is located on Lady Ann Lake next to and upgradient of Redstone Arsenal.

3.1.4 Town of Triana

The Town of Triana is a small community of less than 1,000 people bordering the southwest corner of Redstone Arsenal along the Tennessee River. Its population is over 90 percent African-American. Triana has maintained a more rural/agriculture base than has Huntsville. The Triana public water source is a groundwater well. In the past, the Triana community actively used the local creeks and rivers for recreation and fished the waters for a supplemental

food source. Triana learned in 1978 that their health was being affected by DDT found in the fish they were catching for food. The DDT came from activities of the Olin Corporation, a former tenant on Redstone Arsenal who manufactured DDT from 1947 until 1970. Olin discharged wastewater into drainage channels which feed into Huntsville Spring Branch, 11-miles upstream of Triana. Triana remains actively interested in activities at Redstone Arsenal.

3.2 COMMUNITY INVOLVEMENT AND PREVIOUS COMMUNITY RELATIONS PROGRAMS

3.2.1 History of Community Involvement

Due to the mission of the installation meeting national and international agendas with distinct security classifications, Redstone Arsenal had remained insulated from involving the public until the late 1960s. With the DDT impact in Triana in 1978, the MICOM Public Affairs Office at Redstone Arsenal established a policy of sharing site information and responding directly to community concerns. In 1989, a series of study reports on several groups of SWMUs were made available. Meetings were held with the Army-Huntsville Community Relations Committee, local public officials, and the Madison County medical officer. Invitations to the newspaper and television media for interviews and a tour of a representative site resulted in extensive media coverage. There had been few queries from the press or public until 1993 when EPA proposed Redstone Arsenal for inclusion on the NPL due to contamination at the SWMU sites under investigation.

Redstone Arsenal has been a long-standing participant in community service programs and active in economic service organizations such as local Chambers of Commerce. It has been through the Huntsville-Army Community Relations Committee that Redstone Arsenal has been regularly consulting with community leadership since 1944. Presently made up of over 40 prominent businessmen and local officials, the advisory group generally meets quarterly with the Redstone Arsenal Commander, Redstone Arsenal staff and State and regulatory representatives to discuss issues or interests of concern. Communications with various members has indicated that meetings are called by the Commander as needed, and members consider their membership as

supportive of the Redstone Arsenal mission. As such, the contacted members did not identify any environmental issues or concerns for the public beyond the historic DDT contamination suffered by the community of Triana.

In addition to this committee, an organization of Retired Senior Army Officers meets regularly with the Redstone Arsenal Commander, Public Affairs personnel and other staff to discuss Redstone Arsenal issues of interest both on and off the installation. The installation communicates with the general public through news releases and the weekly publication of the Redstone Rocket newspaper.

3.2.2 Previous Community Relations Programs

The U.S. Army's first programmatic involvement with the public regarding environmental issues began in 1978 with the DDT contamination affecting the residents around Triana. Redstone Arsenal supported investigations of the site by TVA. Fish advisories posted in 1978 have been extended and are still in affect along the 11-mile stretch of the Huntsville-Spring Branch and Indian Creek.

It was in December 1980 that the U.S. EPA brought suit against Olin Corporation for operations resulting in DDT contamination. With the passage of Superfund later that same month, the Triana/Tennessee River site (from the former Olin site to Triana) was proposed for inclusion to the NPL and listed in 1983. The case was settled by negotiations and a Consent Decree approved on May 31, 1983. The 1983 Consent Decree provided for the establishment of a Review Panel made up of ADEM and four federal agencies: U.S. EPA, TVA, U.S. Fish and Wildlife Service, and the U.S. Army represented by the Deputy Post Commander of Redstone Arsenal. This last position is supported by the MICOM Environmental Management Office of Redstone Arsenal. Non-voting representation was granted to the Town of Triana and Olin Corporation. The Review Panel meets every January and July to review and discuss the progress of the monitoring programs. The Panel has met over 30 times since 1983.

EPA held town meetings attended by 400 residents in 1984 and over 100 in 1986. Remediation of the DDT site began in April 1986 and ended in October 1987. A long-term monitoring program, established by the Decree, began January 1, 1988. The MICOM Public Affairs Officer at Redstone Arsenal has remained the local point of contact for the Triana community. Site remediation is in its tenth year and 1993 is the sixth year of the ten-year monitoring period set out in the Decree. According to EPA, all requirements of the Consent Decree have been met in a timely manner and the data for fish and water show a continuing downward trend of DDT concentration. The EPA has determined that significant progress has been made at the site. EPA held a public meeting in Triana in July 1993 to meet with the community to discuss the project status and success. Over 100 residents attended. The Army presented a fact sheet (Appendix F) to the attendees regarding the IRP activities at Redstone Arsenal and announced that the EPA has proposed Redstone Arsenal for inclusion on the NPL.

3.3 GENERAL ISSUES OF CONCERN

The Olin DDT contamination project continues to be the point of reference for all agencies contacted when asked about awareness of any environmental activities or concerns expressed by the public regarding Redstone Arsenal. Other references have been made to subsequent, additional impacts to the Triana residents from contamination by polychlorinated biphenyls (PCBs). No other environmental issue was ever cited.

Community concern regarding contamination at Redstone Arsenal and the associated environmental restoration program appears to be low in the Huntsville and Madison County communities in general. The long term presence of the installation and the close connection between the mission at Redstone Arsenal and the economy of the area tends to increase the public's acceptance of any activities which may create inconveniences, such as minor noise impacts. There also is a sense in these communities that Redstone Arsenal is responding appropriately to the protection of the environment and health of the community. The general community perception appears to recognize that Redstone Arsenal is working with regulatory agencies and is responding appropriately to identify and remediate contamination at the installation.

Potential issues during restoration activities will more likely come from Triana residents and the federal agencies performing ongoing monitoring in the surrounding waterways. In addition, workers at or near restoration sites may become concerned about any potential for exposure to contamination. Presently, four issues have been expressed during conversations with local representatives: health concerns, the availability of information, job impacts, and fish and wildlife protection.

Health Concerns - Triana residents have been under an ongoing medical surveillance program funded by Olin Corporation and under the review of the federal Agency for Toxic Substance and Disease Registry (ATSDR). Human health concerns present the greatest fears to residents who daily wonder if they have been exposed to contaminants and what may be the impending health impacts of exposure to contaminants. The identification of contamination upstream of their community presents the potential for additional chemical exposure, adding mental stress to an existing reality of and concern regarding health impacts.

Availability of Information - The Town of Triana is presently the location of the information repository for the administrative record of the Olin DDT Superfund site, and Triana desires an active role in future involvement with Redstone Arsenal. Town representatives have requested that Redstone Arsenal establish an information repository at Triana Town Hall for upstream Redstone Arsenal investigations. Ready access to information allows for more informed participation in the decision-making process.

Job Base Protection - As a major employer in northern Alabama, Redstone Arsenal has a strong economic impact within the region. Military downsizing and mission realignments are of considerable concern due to the potential job impacts in the neighboring communities. Any perception that environmental restoration would impact job opportunities at Redstone Arsenal will concern local residents and officials alike.

Fish and Wildlife Protection - One Triana representative lamented that more attention has been provided to the protection of fish and wildlife, particularly ducks, than to human health. Protection of the Wheeler National Wildlife Refuge is the concern and responsibility of the U.S.

Fish and Wildlife Service. It has not been determined to what degree private concerns from sportsman or other outdoor enthusiasts has been expressed to them regarding loss of protection to fish and wildlife.

SECTION 4.0 COMMUNITY RELATIONS PROGRAM

4.1 OBJECTIVES

The Community Relations Program is designed to establish an effective communications link amongst Army personnel, and with any affected on-post and off-post communities regarding environmental restoration at Redstone Arsenal. To provide these communities with opportunities to respond to current and accurate information, the program at the site is structured around the following goals:

- To identify a single point of contact at Redstone Arsenal in order to assure a consistent source of factual data and consolidation of project updates.
- To address any concerns raised by the community and discuss with the community the data collected from on-post investigations, interim corrective measures and other applicable studies.
- To inform the community about DERP activities that have been and are expected to be conducted at Redstone Arsenal as well as the schedule for planned activities.
- To disseminate information to the State, municipal, and Army agencies and officials regarding the activities conducted at the site and maintain open communications with appropriate government personnel and community representatives.
- To inform the affected and interested communities about the DERP process in general and specifically how it relates to Redstone Arsenal and the surrounding community.
- To provide local, state, and federal officials with information about Arsenal activities and findings during restoration activities so that they can better inform their constituents, as appropriate.

4.2 ACTIVITIES

The following activities are proposed for implementation during the IRP activities at Redstone Arsenal. The activities listed are required and/or considered those most likely to meet community needs. However, this list is not conclusive and should not limit public participation or information needs. Some activities, such as site visits, are not included due to the difficulties in arranging public visits onto a defense security facility, and the inherent dangers at hazardous waste or ordnance SWMUs. Additional activities can be identified in the site-specific PIRPs.

These activities can be implemented as appropriate on an as-needed or as-required basis.

4.2.1 Public Information Repository

A public information repository provides citizens with an opportunity to seek additional information about the site. In addition to the regulatory agency's files available in ADEM's Montgomery office, suggested locations for both an on-post and off-post information repositories are identified in Appendix D. The repository will contain the administrative record, the compilation of documents, data reports and other information that is important to the status of and decisions made relative to the site. The file will be updated as additional information becomes available. An index will be available for easy reference. The U.S. EPA Region IV office in Atlanta, Georgia will also maintain the administrative record if Redstone Arsenal is included on the NPL.

4.2.2 Points of Contact

Ms. Pamela Rogers, Community Relations Specialist, MICOM Public Affairs Office, is the Redstone Arsenal IRP Community Liaison. In coordination with the responsible USACE office and the MICOM Environmental Management Office of Redstone Arsenal, she will inform the appropriate official(s) of activities, findings, and other developments on an ongoing basis. The Town of Triana is recommended as the primary off-post point of contact for telephone notifications, courtesy calls and project updates. Personal communications or meetings with

other local officials, particularly with the Madison County Commissioner representing the Redstone Arsenal district, can be developed if the need arises. Technical points of contact will be identified for each particular site. Any questions regarding the NASA activities on the installation will be directed to the NASA Public Affairs Office at MSFC.

4.2.3 Public Meetings

A public information meeting will be scheduled upon completion of a draft CMS developed for Redstone Arsenal. The draft CMS proposes alternatives for final remediation of a site. Appropriate meeting locations identified by Redstone Arsenal include on-post and off-post auditoriums. Suggested locations for public meetings are provided in Appendix E. Additional locations will be identified if required to meet specific meeting objectives.

4.2.4 Availability Sessions

Availability sessions are informal gatherings or open houses where people can talk to agency officials on a one-to-one basis. Redstone Arsenal personnel and/or technical staff are available to answer questions and to present visual exhibits or provide information on activities and findings at the site. This opportunity can be made available at community centers or at local libraries, and may follow a presentation, or perhaps an introduction made at a local club or other civic organization gathering. Availability sessions are appropriate when small audiences are anticipated or for progress updates. The informal atmosphere can help establish a rapport between concerned and interested citizens with Redstone Arsenal personnel. These are appropriate for gatherings where discussions are desired regarding particular issues at a site, such as specific chemical constituents or personal health issues.

4.2.5 Fact Sheet Distribution

To inform the community of activities and findings during restoration projects, fact sheets will be prepared as appropriate. The MICOM Public Affairs Office at Redstone Arsenal will send fact sheets or technical summaries directly to interested community residents, interested parties,

media contacts, and applicable local officials, and provide through town halls and libraries when appropriate. The first fact sheet of this series is provided in Appendix F. Anyone wishing to be added to the mailing list may contact the MICOM Public Affairs Office at Redstone Arsenal to request inclusion on the list. Based on the draft CMS prepared for final remediation to a site, a "Proposed Plan" (preferred alternative) for final remediation will also be presented in a fact sheet format for public comment. A general public mailing list is provided in Appendix A and media distribution is made from the listing in Appendix B. Mailing lists of private citizens are maintained separately by the MICOM Public Affairs Office at Redstone Arsenal.

4.2.6 Public Comment Period/Responsiveness Summary

The public comment period is the designated period where comments from citizens are formally accepted for consideration in decisions regarding a proposed course of action. For Redstone Arsenal IRP activities, a public comment period will be announced when the draft CMS (or an FS) and Proposed Plan is available for review. Public comments can be made in writing during the designated period or at the public meeting addressing the same issue. The public meeting will have a court reporter to transcribe all comments made. The opportunity to fill in a public response card or leave other written comments will also be available. Commenting by telephone is permissible but does not always assure documentation of the exact concern or question(s), but rather what was understood.

The Responsiveness Summary is the document which presents the summation of private and public responses received during the comment period, a copy of the transcript and written comments, and the Army's response to the comments. This document is considered in and included as part of the ROD.

4.2.7 News Releases

To ensure that community residents receive accurate information about site plans and developments, news releases will be prepared as required. A regular program publicizing site

information can help prevent rumors, personal concerns, or distrust of decisions regarding activities at the site. Appendix B provides a listing of media resources.

4.2.8 Press Briefings

Press briefings may become appropriate should community concerns or media interest be noted. Press visits to the sites during any site activities must be scheduled through the MICOM Public Affairs Office at Redstone Arsenal.

4.2.9 Public Notices

Public notices will be published in the local newspapers to announce availability of documents in the information repositories and pertinent site activities, as necessary. A public notice is required to announce the public meeting and comment period for response to the draft CMS and the Proposed Plan for final remediation and the selected alternative and availability of the ROD for review and comment.

4.2.10 Technical Review Committee

A Technical Review Committee (TRC) will be established in accordance with AR 200-1 requirements if desired by community members and approved by the Redstone Arsenal Commander. SARA requires that a TRC be established "whenever possible and practical to review and comment on Department of Defense actions and proposed actions with respect to actual or threatened releases of hazardous substances at installations."

TRC members include a public representative(s) to allow public comment to be made directly to officials making decisions regarding the site. Typically chaired by the commanding officer, members are also drawn from the MICOM Environmental Management and Public Affairs Offices at Redstone Arsenal, Army agency representatives, state regulatory agencies and local environmental and/or health agencies. Representatives from the existing Army-Huntsville

Community Relations Committee and the Triana Review Panel for the Olin DDT site should be included in TRC membership.

A TRC can be created for any individual or group of related sites and may be named accordingly. Should Redstone Arsenal become listed on the NPL, EPA SWMUs proposed for finalization in late 1993 may provide additional requirements for the TRC.

4.2.11 Development of PIRPs

The PIRP is the plan designed specifically to address the public's information needs during the specific IRP activity at a SWMU site or group of SWMU sites. It will supplement and/or modify this Installation CRP with additional site-specific information. Community interviews are performed as appropriate to determine the most effective means for facilitating communications between the interested public and Redstone Arsenal. Appendix G presents a sample generic questionnaire useful during personal or telephone interviews for developing the PIRP.

4.2.12 Revision of the CRP/PIRP

This CRP or any PIRP should be reviewed and/or revised when there is a significant change in the involvement or concerns in the community, and upon completion of an investigation phase before initiation of remedial action. The revision of the CRP/PIRP will address the community response at the public meeting, and during both public comment periods regarding the proposed and chosen corrective action. It should include an update and verification of the information within the CRP/PIRP, assessment of the effectiveness of the CRP/PIRP to date, and determination of appropriate methods for the future roles of the community during final remedial design, installation, operation and maintenance phases. Community interviews should be held before a CRP or PIRP is revised.

4.3 SCHEDULING OF ACTIVITIES

A milestone schedule for community relations activities is presented in **Exhibit 4**. This schedule reflects DERP program requirements and basic community needs. The schedule is presented as a guideline only. Regulatory and other legal mandates will present specific details for public participation requirements.

EXHIBIT 4

MILESTONE SCHEDULE OF COMMUNITY RELATIONS SUPPORT
DURING INSTALLATION RESTORATION PROGRAM ACTIVITIES

COMMUNITY RELATIONS ACTIVITY	COMPLETION OF THE WORK PLAN	DURING RI OR RFI	COMPLETION OF RI OR RFI	DURING FS OR CMS	COMPLETION OF DRAFT FS OR CMS	COMPLETION OF FINAL FS OR CMS REPORT/ROD	START OF REMEDIAL DESIGN	START OF REMEDIAL/CORRECTIVE ACTION	OPERATIONS AND MAINTENANCE
INFORMATION REPOSITORY/ADMINISTRATIVE RECORD	■				UPDATE AS NEEDED				■
NAMING OF INFORMATION CONTACT	■				UPDATE AS NEEDED				■
CONTACT WITH LOCAL OFFICIALS	■	■				■		■	
ESTABLISH TECHNICAL REVIEW COMMITTEE	■				AS REQUIRED				■
AVAILABILITY SESSIONS	■	■	AS REQUIRED	■			■		■
FACT SHEETS/TECHNICAL SUMMARIES		■		■			■		
PROPOSED PLAN FACT SHEET					■				
NEWS RELEASES	■				PROVIDE AS NEEDED				■
PUBLIC NOTICES					■	■		■	
PUBLIC COMMENT PERIOD					■	■			
PUBLIC MEETING/TRANSCRIPT						■			
RESPONSIVENESS SUMMARY						■			
DEVELOP AND/OR UPDATE OF CRP/PIRP	■						■		

APPENDIX A
LISTING OF PUBLIC CONTACTS AND INTERESTED PARTIES
Redstone Arsenal, Alabama

A mailing list of concerned and interested private citizens is kept by the MICOM Public Affairs Office at Redstone Arsenal for individuals not wishing to be identified on a public listing.

A. PUBLIC AFFAIRS POINTS OF CONTACT :

IRP Community Liaison

Commander (205) 842-0561
US Army Missile Command (205) 955-0133 Fax
ATTN: AMSMI-IN (Pamela Rogers)
Public Affairs Office
Redstone Arsenal, AL 35898-5020

Support

Commander (912) 652-5279
US Army Corps of Engineers (912) 652-5944 Fax
Savannah District
ATTN: CESAS-PA (Jim Parker)
P. O. Box 889
100 Oglethorpe Street
Savannah, GA 31402-0889

Public Affairs Officer (205) 876-4161
US Army Missile Command (205) 876-9438 Fax
ATTN: AMSMI-IN (Dave Harris)
Redstone Arsenal, AL 35898-5020

On-Call

Commander (410) 671-2556
US Army Environmental Center
ATTN: SFIM-AEC-PA (Elizabeth Sergeant)
Building E4461
Aberdeen Proving Ground, MD 21010-5401

Commander (402) 221-7208
US Army Corps of Engineers
Missouri River Division
ATTN: CEMRD-PA (Paul Johnston)
12565 West Center Road
Omaha, NE 68144-3869

Commander (202) 272-0010
US Army Corps of Engineers
Department of the Army
ATTN: CEPA-I-SS (Scott Saunders)
20 Massachusetts Avenue, NW
Washington, DC 20314-1000

Public Affairs Officer, USAMC (703) 274-8010
ATTN: Faith Faircloth, PAO
5001 Eisenhower Avenue
Alexandria, VA 22333

Commander (205) 690-2505
U.S. Army Corps of Engineers (205) 690-2516 fax
Public Affairs Office
ATTN: CESAM-PA (Pat Robins)
109 St. Joseph Street
Mobile, AL 36602

Commander (205) 955-4108
US Army Engineer Division, Huntsville
Public Affairs Office
ATTN: CEHND-PA (Ken Crawford)
1600 Wynn Drive
Huntsville, AL 35807

Commander (404) 331-6715
US Army Corps of Engineers
South Atlantic Division
ATTN: CESAD-PA (Robert Holland)
77 Forsyth Street, SW, Room 313
Atlanta, GA 30335-6801

Commander (410) 671-2088
US Army Environmental Hygiene Agency
ATTN: HSHB-PA (Evelyn Reilly)
Aberdeen Proving Ground, MD 21021

NASA Marshall Space Flight Center

NASA Public Affairs Office at MSFC (205) 544-0038

B. ARMY CORPS OF ENGINEERS

Point of Contact

Commander (912) 652-5166
US Army Corps of Engineers (912) 652-5311 Fax
Savannah District
ATTN: CESAS-PM-H (Frank de la Sierra)
100 West Oglethorpe Avenue
Savannah, GA 31402-0889

Other

Commander (202) 272-0011
US Army Corps of Engineers
Department of the Army
ATTN: CEEC-B
Pulaski Building
Washington, DC 20317

Commander (205) 690-2500
US Army Corps of Engineers
Mobile District
ATTN: CESAM-EN-FE
109 St. Joseph Street
Mobile, AL 36628

Commander (402) 221-7208
US Army Corps of Engineers
Missouri River Division
ATTN: CEMRD-EP-C (Don Williams)
12565 West Center Road
Omaha, NE 68144-3869

Commander (404) 331-6711
US Army Corps of Engineers
South Atlantic Division
ATTN: CESAD-PM-H (Richard Connell)
77 Forsyth St., SW, Room 313
Atlanta, GA 30335-6801

Commander (205) 955-5072
US Army Corps of Engineers
Huntsville Division
ATTN: CEHND-PM-OT (Steve Dunn)
P. O. Box 1600
Huntsville, AL 35807-4301

C. REDSTONE ARSENAL

Commander (205) 876-2101
US Army Missile Command
ATTN: AMSMI-CG (Maj. Gen. Joe W. Rigby)
Redstone Arsenal, AL 35898-5100

Commander (205) 876-8607
US Army Missile Command
ATTN: AMSMI-RA-EH-EQ (Bill Schroder)
Redstone Arsenal, AL 35898-5349

Commander (205) 955-6967
US Army Missile Command (205) 876-0887 Fax
ATTN: AMSMI-RA-EH-EQ (Craig Northridge)
Redstone Arsenal, AL 35898-5349

Commander (205) 842-0532
U.S. Army Missile Command
ATTN: AMSMI-GC (Amy Meredith)
Redstone Arsenal, AL 35898

Commander (205) 876-8861
U.S. Army Missile Command
ATTN: AMSMI-RA (Col. Ross I. Sanders)
Redstone Arsenal, AL 35898

D. DEPARTMENT OF THE ARMY

Commander (410) 671-3182/1542
US Army Environmental Center
ATTN: SFIM-AEC-IR-P (Karen Wilson)
Building E4480
Aberdeen Proving Ground, MD 21010-5401

Commander (410) 671-2953
US Army Environmental Hygiene Agency
ATTN: HSHB-ME-SR (Ms. McCarthy)
Aberdeen Proving Ground, MD 21021-5422

E. REGULATORY AGENCIES

Charles R. Horn, Water Division (205) 271-7823
Alabama Department of Environmental Management
P. O. Box 301463
1751 Congressman W.L. Dickinson Drive
Montgomery, AL 36130-1463

Larry Bryant, Chief, Engineering Section (205) 260-2787
Special Projects Division (205) 260-2795 Fax
Alabama Department of Environmental Management
P. O. Box 301463
1751 Congressman W.L. Dickinson Drive
Montgomery, AL 36130-1463

David Granger, Public Affairs Office (205) 271-7712
Alabama Department of Environmental Management
P. O. Box 301463
1751 Congressman W.L. Dickinson Drive
Montgomery, AL 36130

Paul Moser, Hydrogeologist (205) 349-2852 x316
Alabama Geological Survey (205) 349-2861 Fax
Division of Hydrogeology
P. O. Box O
Tuscaloosa, AL 35486

Jon D. Johnston, Chief, Federal Facilities Branch (404) 347-3016
Waste Management Division 4WD/FFB (404) 347-5205 fax
Attn: EPA ID AL2 210 020 742
US Environmental Protection Agency, Region IV
345 Courtland Street, NE
Atlanta, GA 30365-2401

F. STATE ELECTED OFFICIALS

Federal Offices

The Honorable Howell Heflin (202) 224-4124
US Senate
728 Hart Senate Office Building
Washington, DC 20510

The Honorable Howell Heflin (205) 381-7060
US Senate
P.O. Box 228
Tuscumbia, AL 35674

The Honorable Richard Shelby (202) 224-5744
US Senate
516 Hart Senate Office Building
Washington, DC 20510

The Honorable Richard Shelby (205) 772-0460
US Senate
1000 Glen Hern Blvd.
Box 20127
Huntsville, AL 35803

The Honorable Bud Cramer (202) 225-4801
US House of Representatives
1431 Longworth Bldg.
Washington, DC 20515

The Honorable Bud Cramer (205) 551-0190
US House of Representatives
403 Franklin Street
Huntsville, AL 35801

State Offices

The Honorable Jim Folsom, Jr. (205) 242-7100
Governor, State of Alabama
Alabama State House
Montgomery, AL 36130

Don Hale, State Senator (205) 739-3832
District 4
409 Second Avenue
Cullman, AL 35055

Representative Jim Haney (205) 883-6062
District 10
P. O. Box 16122
Huntsville, AL 35802

G. LOCAL OFFICIALS

Madison County

Michael Gillespie, Chairman (205) 532-3492
Madison County Board of Commissioners
Room 700 County Courthouse
100 Northside Square
Huntsville, AL 35801-4820

Howard Baites, County Administrator (205) 532-3492
Room 700 County Courthouse
100 Northside Square
Huntsville, AL 35801-4820

Larry Hayes, Director, Environmental Health (205) 539-8101
Madison County Health Department
P.O. Box 467
Huntsville, AL 35804

Dr. Robey, Health Officer (205) 539-8101
Madison County Health Department
P.O. Box 467
Huntsville, AL 35804

Larry Waller, President (205) 535-2005
Huntsville-Madison County Chamber of Commerce
225 Church Street
P.O. Box 408
Huntsville, AL 35804

City of Huntsville

Steve Hettinger, Mayor (205) 532-7304
City of Huntsville
P.O. Box 308
Huntsville, AL 35801

Newton Vaughn
Natural Resources and Environmental Management
City of Huntsville
P.O. Box 308
Huntsville, AL 35804

Dallas Fanning
Department of Urban Development
City of Huntsville
P.O. Box 308
Huntsville, AL 35804

Eddie Coker, Executive Director (205) 880-6054
Solid Waste Disposal Authority of the City of Huntsville
5251 Triana Blvd.
P.O. Box 2619
Huntsville, AL 35804-2619

City of Madison

Mayor Charles Yancura (205) 772-5600
City of Madison
100 Hughes Road
Madison, AL 35758

Ardelle Marx, Administrative Assistant
Cynthia McCollum, City Council President
Bob Atallo, City Planner
Charles Wallace, Fire Chief
Skip Atkins, Public Works Director
Cecil Moses, Police Chief

Town of Triana

Mayor Wanda Jordan (205) 772-0151
Town of Triana
640 Sixth Street
Madison, AL 35758

Marvelene Freeman, President Pro-Tem (205) 772-0650 Business
Triana Town Council
640 Sixth Street
Madison, AL 35758

Town Council Members:

Robert Sanderson
Sybrenna Harris
Elex Jones
Blanche Orr

Clyde Foster (former Triana Mayor) (205) 464-0124 Business
480 Zerdt Road (205) 464-9801 Home
Madison, AL 35758

Morgan County

Larry Bennich, Chairman (205) 351-4737
Morgan County Commission
P.O. Box 668
Decatur, AL 35602

Willa Dockery, County Administrator (205) 351-4600
Morgan County Commission
P.O. Box 668
Decatur, AL 35602

Mary Ann Sims, Deputy Director, Plans and Operations (205) 351-4600
Decatur-Morgan County Emergency Management Agency
P.O. Box 668
Decatur, AL 35602

City of Decatur

Mindy Thwing, Beautification Director (205) 353-5312
Decatur Chamber of Commerce
P.O. Box 2003
Decatur, AL 35602

Mayor Bill J. Dukes (205) 351-7967
City of Decatur
P. O. Box 488
Decatur, AL 35602

H. INTERESTED PARTIES AND INDIVIDUALS

James H. Lee (404) 331-4524
Regional Environmental Officer
US Department of the Interior
Richard B. Russell Federal Bldg., Rm. 1320
75 Spring Street SW
Atlanta, GA 30303

Lee Barkley, Supervisor (615) 528-6481
Ecological Services Office
US Fish and Wildlife Service
P.O. Box 845
Cookeville, TN 38503

Arthur G. Linton (404) 347-3776
US Environmental Protection Agency, Region IV
345 Courtland Street, NE
Atlanta, GA 30365-2401

Anne Asbell, Assoc. Regional Counsel (404) 347-2309
Chairperson, Triana/Tennessee River Site Review Panel Ext. 2926
Office of Regional Counsel
US Environmental Protection Agency, Region IV
345 Courtland Street, NE
Atlanta, GA 30365
ATTN: Andy Hey, Paralegal (404) 347-2641
Ext. 2241

Betty Winter, Community Relations Coordinator (404) 347-2643
South Superfund Remedial Branch
US Environmental Protection Agency, Region IV
345 Courtland Street, NE
Atlanta, GA 30365

Buster Smith, Supervisor, Land Management (205) 386-2223
Tennessee Valley Authority
OSA 1A
P.O. Box 1010
Muscle Shoals, AL 35660-1010

Tuck Stone, Refuge Manager (205) 353-7243
Wheeler National Wildlife Refuge
Route 4 Box 250
Decatur, AL 35601

Mr. W.L. Halsey, Jr., Chairman (205) 772-9691 Business
Huntsville-Army Community Relations Committee (205) 533-5381 Home
308 Eustis Avenue, SE
Huntsville, AL 35801

Mr. Tom G. Thrasher, Vice Chairman and Treasurer (205) 539-2453 Business
Huntsville-Army Community Relations Committee (205) 534-5104 Home
1002 Westmoreland Avenue, SE
Huntsville, AL 35801

I. PUBLIC INTEREST GROUPS

Sierra Club, North Alabama Chapter
P. O. Box 1754, West Station
Huntsville, AL 35807

Huntsville Land Trust
806 Governor Drive, SW
P. O. Box 43
Huntsville, AL 35804

(205) 534-5263

Huntsville Grotto of the National Speleological Society (205) 852-1300
P. O. Box 1702
Cave Avenue
Huntsville, AL 35807

Huntsville-Madison County Botanical Garden Society
4747 Bob Wallace Avenue
Huntsville, AL 35805

Burritt Museum
3101 Burritt Drive
Huntsville, AL 35801

Alabama Society of Professional Engineers
John M. Ozur
4814 Commercial Drive
Huntsville, AL 35816

Alabama Wildlife Rescue Service, Tennessee Valley Chapter
P. O. Box 2305
Huntsville, AL 35804

Huntsville Board of Realtors, Inc.
535 Monroe Street
Huntsville, AL 35801

American Water Resources Association (205) 830-4570
4930 Corporate Drive, NW
Huntsville, AL 35830

Huntsville Jaycees
112 C. Southside Square
Huntsville, AL 35801

Save America's Valuable Environment
P. O. Box 2022
Huntsville, AL 35804

Tennessee Valley Audubon Society
411 Rock Street
Hartselle, AL 35640

Marshall Engineers & Scientists Association Local 27 of IFPTE
Building 4471
Redstone Arsenal, AL 35812

American Federation of Government Employees Local 1858
Building 7132
Redstone Arsenal, AL 35898

APPENDIX B
MEDIA CONTACTS AND RESOURCES
Redstone Arsenal, Alabama

A. TV STATIONS

WAAY-TV 31 (205) 533-3131 Business
P. O. Box 2555 (205) 533-6616 Fax
1000 Monte Sano Boulevard, SE
Huntsville, AL 35804
Attn: Jim Nunez, Assignment Editor

WAFF-TV 48 (205) 533-4848 Business
P. O. Box 2116 (205) 533-1337 Fax
1414 Memorial Parkway NW
Huntsville, AL 35801
Attn: Jon Mangum, Assignment Editor

WHNT-TV 19 (205) 533-1919 Business
200 Holmes Avenue, NW (205) 536-9468 Fax
Huntsville, AL 35801
Attn: Keith Lowhorne, Assignment Editor

WZDX-TV 54 (205) 859-5454 Business
6025 Mastin Lake Road, NW
Huntsville, AL 35810

B. RADIO

WAHR FM 99.1 (205) 536-1568 Business
2714 Lawrence Avenue, SW (205) 536-4416 Fax
Huntsville, AL 35801
Attn: Lee Rivers, PSA
Ericka Lathan, News

WBHP AM 1230 (205) 533-9247 Business
Box 547 (205) 536-1329 Fax
2101 Governors Drive, SW
Huntsville, AL 35801
Attn: Perry Stevens, News Director
Abbey Kay, PSA

WDRM 102-FM/WHOS AM 800
Box 789
401 14th Street
Decatur, AL 35602
Attn: Tony Lowery, PSA
Perry Stevens, News

(205) 533-9247 Business
(205) 355-8013 Fax

WEUP AM 1600
2609 Jordan Lane, NW
Huntsville, AL 35806
Attn: Sharla Denee, PSA/News

(205) 837-9387 Business
(205) 837-9404 Fax

WKGL AM 1450
2305 Holmes Avenue, NW
Huntsville, AL 35801

(205) 533-1450

WOCG FM 90.1
Oakwood Road, NW
Huntsville, AL 35896
Attn: Jody Stennis, PSA/News

(205) 726-7420 Business
No Fax

WRSA FM 97
Box 4144
Huntsville, AL 35802
Attn: George Bonnell, PSA/News

(205) 539-0097 Business
(205) 498-2791 Fax

WZYP FM 104.3/WVNN AM 770
Box 11457
Huntsville, AL 35814
Attn: Dave Stone, PSA

(205) 830-8300 Business
(205) 232-6842 Fax

WKMW
200 Main Street
Madison, AL 35758

(205) 461-7373 Business

WJAB FM 90.9
Alabama A&M University
P. O. Box 174
Normal, AL 35762
Attn: Ellen Washington, PSA

(205) 851-5861 Business
(205) 851-5030 Fax

WTKI AM 1450
P. O. Box 1483
Huntsville, AL 35807
Attn: Fred Holland, PSA/News

(205) 533-1450 Business
(205) 536-4349 Fax

WHVK FM 93
Box 3089
Athens, AL 35611
Attn: Dave Stone, PSA/News

(205) 430-0110 Business
(205) 232-6842 Fax

WLRH FM 89.3 Public Radio
UAH Campus
4701 University Drive
Huntsville, AL 35899
Attn: Cheryl Carlson, PSA
Jeff Stratten, News

(205) 895-9574 Business
(205) 830-4577 Fax

WNDA FM 95
2407 9th Avenue, SW
Huntsville, AL 35805
Attn: Mike Wilson, Program Director

(205) 534-2433 Business
(205) 533-6265 Fax
(205) 534-2434 News

WTAK AM 1000
6420 Stringfield Road, NW
Huntsville, AL 35810
Attn: Tom Kelly, Program Director/News Desk

(205) 859-6100 Business
(205) 859-5556 Fax

C. NEWSPAPERS

On-Post

Commander
U.S. Army Missile Command
ATTN: AMSM1-EN, Redstone Rocket
Redstone Arsenal, AL 35898-5020

(205) 876-1500

Local

Huntsville Times
2317 Memorial Parkway, SW
Huntsville, AL 35801
Attn: Gary Hollis, State Editor
Lee Roop, City Editor

(205) 532-4000 Business
(205) 532-4420 Fax

The Huntsville News
2117 Clinton Avenue, West
Huntsville, AL 35801
Attn: Bud McLaughlin, News Editor

(205) 532-4527 Business
(205) 532-4530 Fax

Madison County Record
Box 175
202 Main Street
Madison, AL 35758

(205) 722-8666 Business

Speakin' Out News
Box 2826
Huntsville, AL 35804
Attn: William Smothers, Editor

(205) 852-9449 Business
(205) 852-9484 Fax

Bob Dunnavant, Reporter
117 Malone Circle, NW
Athens, AL 35611

(205) 233-0758

Regional

UPI-Atlanta
1819 Peachtree Road, NE
Suite 415
Atlanta, GA 30367
Attn: Stan Darden

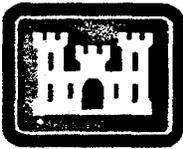
(404) 355-5700
(404) 355-1037 Fax

Associated Press
One CNN Center
Suite 500 South Tower
Atlanta, GA 30303
Attn: Anne Fitz Henry

(404) 544-8971
(404) 524-4639 Fax

APPENDIX C
THE INSTALLATION RESTORATION PROGRAM

USATHAMA, January 1992 (2 pages)



US Army Corps
of Engineers

USATHAMA

U.S. Army Toxic and Hazardous
Materials Agency

Aberdeen Proving Ground, Maryland 21010-5401



THE INSTALLATION RESTORATION PROGRAM (IRP)

OVERVIEW

The Army operates or has operated installations that manufacture(d) a variety of military supplies and are involved in various industrial operations. As a result of these operations, some installations have environmental contamination present in soil, groundwater, surface water, and buildings on the installations. In some cases, the contamination has migrated off the installation through surface water or groundwater. The Army is committed to cleaning up this contamination to a safe level through removal or remedial actions conducted as part of the Installation Restoration Program (IRP).

The IRP is the Department of Defense (DOD) equivalent to the U.S. Environmental Protection Agency (EPA) Superfund program. The U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) is responsible for managing the Army IRP. Under the IRP, USATHAMA manages environmental studies and provides technical oversight to environmental cleanup actions on Army installations. In addition, USATHAMA also directs research and development efforts for new and innovative technologies to treat hazardous waste, and seeks ways to minimize hazardous waste generation and improve pollution control measures. The Army coordinates with appropriate state and federal agencies throughout the IRP process, as well as with the Air Force and Navy on research and development aspects.

The Army's IRP, initiated in 1975, addresses approximately 1,400 properties nationwide. The IRP process involves assessment of contamination and evaluation of cleanup alternatives for Army installations which are determined to have environmental contamination due to past waste disposal practices. Throughout the IRP process, the Army ensures two-way communication with the public and with federal, state, and local agencies.

THE IRP PROCESS

The IRP process consists of three major steps:

1. Preliminary Assessment/Site Inspection (PA/SI) — The PA/SI consists of (1) a review of available historical information about installation activities and land use, and (2) an onsite visit and sampling, where necessary. Its purpose is to determine whether the potential for contamination exists, and to identify possible sources of contamination and potential effects, if any, to public health and the environment. When the PA/SI is completed and if a potential contamination problem has been identified, a decision to proceed with a Remedial Investigation/ Feasibility Study (RI/FS) is made based on the results. A Public Involvement and Response Plan (PIRP), discussed later in this fact sheet, is prepared and implemented as a parallel part of the RI/FS process.

2. Remedial Investigation/Feasibility Study/Removal Actions/Record of Decision (RI/FS/RA/ROD) — If contamination is found on an installation at levels of concern, the Army begins an RI, an investigation to determine the extent and nature of contamination. Existing information is reviewed, and additional data is gathered as needed to define where the contamination is located (in the soil, groundwater, or surface water) and to determine the nature and extent of the contamination. As part of the RI, a risk assessment is conducted. The risk assessment involves a summary and interpretation of the data collected during the RI, identification of ways the contamination can spread, and an assessment of existing and potential effects of the contamination on public health and the environment. At any time, if a situation is identified which poses an immediate danger to human health or the environment, a removal action or interim response action is conducted to remove it. Long-term solutions are addressed in the FS.

In the FS, remedial action alternatives for hazardous waste contamination are evaluated. The FS involves an analysis of these alternatives in relation to technical feasibility, cost, and effectiveness in cleaning up the environment and protecting public health. The alternatives evaluation includes consideration of the no-action alternative; however, even with the no-action alternative, periodic monitoring is continued. The Record of Decision (ROD) describes the final cleanup alternative(s), identifies the preferred alternative ac-

tivity chosen, and documents the decision-making process.

During the FS, a pilot testing study, or treatability study, is sometimes conducted to evaluate cleanup methods for different combinations of contaminants. The treatability study helps determine the kind of treatment necessary so that an accurate cost for cleanup can be estimated. Superfund legislation encourages on-site treatment of contamination.

For Base Closure actions, a statement of condition is prepared which documents what actions have been taken to mitigate hazards that were present for a particular future use. This document is appended to the land transfer deed when the property is transferred.

3. Interagency Agreement (IAG)/Remedial Action — The IAG is a document signed by the regulatory agencies (EPA and the state) and the Army which establishes responsibilities and schedules for conducting the installation restoration activities. The IAG, like other documents in the administrative record, is available to the public for review and comment.

PUBLIC INVOLVEMENT

As indicated in the previous discussion of the IRP process, public involvement is an integral element of the IRP. As a means of encouraging two-way communication with the public and involved agencies, the Army prepares

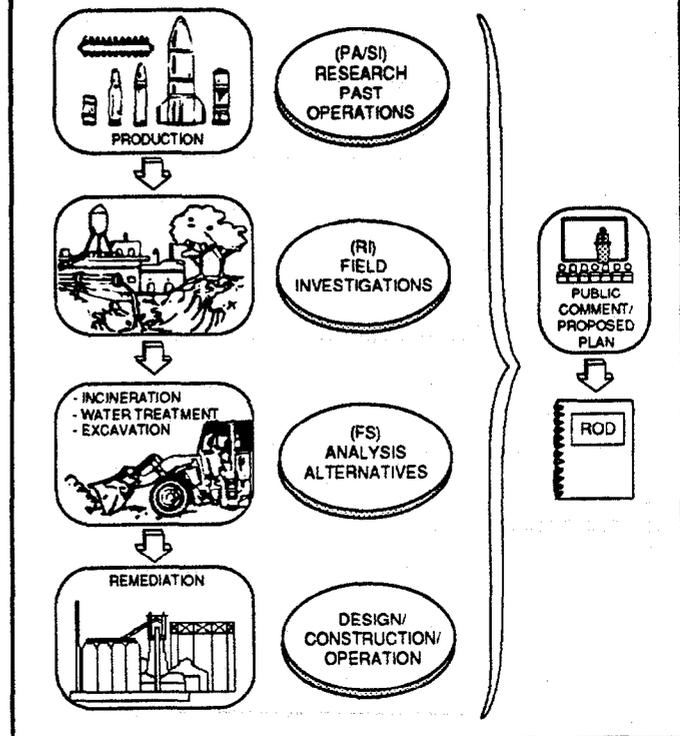
PIRP. Developing a PIRP involves researching the installation history, community background and demographics, and previous and current environmental studies as well as conducting community interviews with residents and local leaders and officials. Results of these interviews assist in defining citizen concerns and suggestions regarding the installation and provide guidance for planning additional public involvement activities. The PIRP serves as a guide for public involvement activities throughout the RI/FS process.

An information repository is also established to provide access for the public to read and copy information relevant to the site. A legal file, called the administrative record, contains data and other site information on which the Army bases its cleanup decision. The administrative record is also available to the public.

When the FS is complete, the public is informed through notices in newspapers and announcements on radio, television, or other appropriate media. A proposed plan, which summarizes the FS and describes the preferred cleanup alternative, is also written and distributed. Citizens are given the opportunity to comment on the FS during a designated public comment period and when a public meeting is held during this period. A Responsiveness Summary is developed to address significant written or oral comments from the public.

A notice of the selected cleanup alternative is published in a major local newspaper, and the ROD and Responsiveness Summary are placed in the ad-

INSTALLATION RESTORATION PROCESS



ministrative record.

Throughout these public involvement steps, the Army uses a variety of techniques, in addition to those already mentioned, to establish two-way dialogue with citizens, local leaders, and the media. These techniques include mailing lists, brochures, slide shows, exhibits, bulletin boards, workshops, onsite tours, etc.

SUMMARY

The Installation Restoration process involves many actions which must be accomplished in addressing the definition of hazardous waste and subsequent cleanup. A portion of this effort is buoyed by adoption of innovative technologies designed to remediate contamination. The sequencing of the IRP is specific and requires intensive management to ensure statutory standards, schedules, and documentation are maintained. The net result of a well-structured and well-managed IRP is achievement of environmental compliance standards in an efficient and timely manner at the lowest possible cost. In this way, the Army is able to fulfill its responsibility of preserving and protecting the environment in accordance with public mandate.

For further information, please contact:

Public Affairs Officer

U.S. Army Toxic and Hazardous Materials Agency
Aberdeen Proving Ground, MD 21010-5401

Telephone: (410) 671-2556

**APPENDIX D
SUGGESTED LOCATIONS FOR A
PUBLIC INFORMATION REPOSITORY
Redstone Arsenal, Alabama**

On-Post

Public Affairs Office (205) 842-0561
US Army Missile Command
Building 5250
Redstone Arsenal, AL 35898-5020
Contact: Ms. Pamela Rogers, Public Affairs Specialist
Note: Available to installation personnel between 7 am and 3:30 pm, CT

Off-Post

Town Hall (205) 772-0151
Town of Triana
640 Sixth Street
Madison, AL 35758
Contact: Sharon Everson, City Clerk
Note: Presently used as information repository for federal action on DDT and PCB contamination from Redstone Arsenal tenant activities.

Huntsville-Madison County Public Library (205) 532-5957
P. O. Box 443
915 Monroe Street, SW
Huntsville, AL 35804
Contact: TBD
Hours: Monday - Thursday - 9 am to 9 pm
Friday and Saturday - 9 am to 5 pm
Sunday - 1 pm to 5 pm
Note: Madison Branch can provide daily deliveries of documents requested from main library. Call 461-0046. Currently maintain Redstone Arsenal Base Realignment, Draft Environmental Impact Statement.

State Regulatory Office

**Alabama Department of Environmental Management
Permits and Services Division
P. O. Box 301463
1751 Congressman W. L. Dickinson Drive
Montgomery, AL 36130-1463**

**(205) 271-7913
(205) 271-7950 Fax**

Contact: Annette Dunn, File Review Coordinator

Hours: By appointment

Note: Arrangements will be made for permits and files to be available from the desired disciplines for personal review. Copies are made at 40 cents/page. Full copies of non-ADEM documents are not available from ADEM.

APPENDIX E
SUGGESTED LOCATIONS FOR PUBLIC MEETINGS
Redstone Arsenal, Alabama

On-Post

To be determined by Redstone Arsenal Public Affairs Office if determined necessary or appropriate.

Off-Post

Triana Town Hall (205) 772-0650
640 Sixth Street
Madison, AL 35758

Contact: Marvelene Freeman, Town Council President Pro-tem
Facilities: Gymnasium accommodates approximately 500 people
Town Hall meeting room accommodates approximately 30 people
Note: No air conditioning; difficult acoustics, but microphone desirable

City of Madison (205) 772-5600
Council Chambers/Courtroom
100 Hughes Road
Madison, AL 35758

Contact: Ardelle Marx, Administrative Assistant
Facilities: New chambers accommodate 100 people, microphone, VCR and overhead projector available
Note: City reserves on Tuesday evenings for court and council meetings.

Huntsville-Madison County Public Library (205) 532-5950
P. O. Box 443
915 Monroe Street, SW
Huntsville, AL 35804

Contact: Administration Office
Facilities: Auditorium seats 200
Meeting rooms A&B can be combined to seat 30 people
\$10 clean-up fee, if refreshment served

APPENDIX F
REDSTONE ARSENAL INSTALLATION RESTORATION PROGRAM FACT SHEET
Redstone Arsenal, Madison County, Alabama

Corrective Measures at Units 1 & 2, Area F and RSA-G, July 1993



Redstone Arsenal

MADISON COUNTY, ALABAMA



INSTALLATION RESTORATION PROGRAM FACT SHEET

JULY 1993

CORRECTIVE MEASURES AT UNITS 1 & 2, AREA F AND RSA-G

This fact sheet is one in a series designed to inform residents and local officials of the Army's installation restoration program and interim corrective measures at Redstone Arsenal.

ARSENAL DESCRIPTION

Redstone Arsenal (RSA) is located in north central Alabama in the southwestern portion of Madison County. RSA is bounded by the City of Huntsville to the north and east, the cities of Madison and Triana to the west, and the Tennessee River to the south. RSA encompasses approximately 38,300 acres. The National Aeronautics and Space Administration (NASA) leases 1,841 acres for the George C. Marshall Space Flight Center. The Wheeler National Wildlife Refuge owns 4,100 acres and the Tennessee Valley Authority owns 2,900 acres within the boundaries of RSA.

RSA is under the jurisdiction of the U.S. Army Materiel Command, the major Army command responsible for insuring the weapons, equipment, and logistic readiness for the Army.

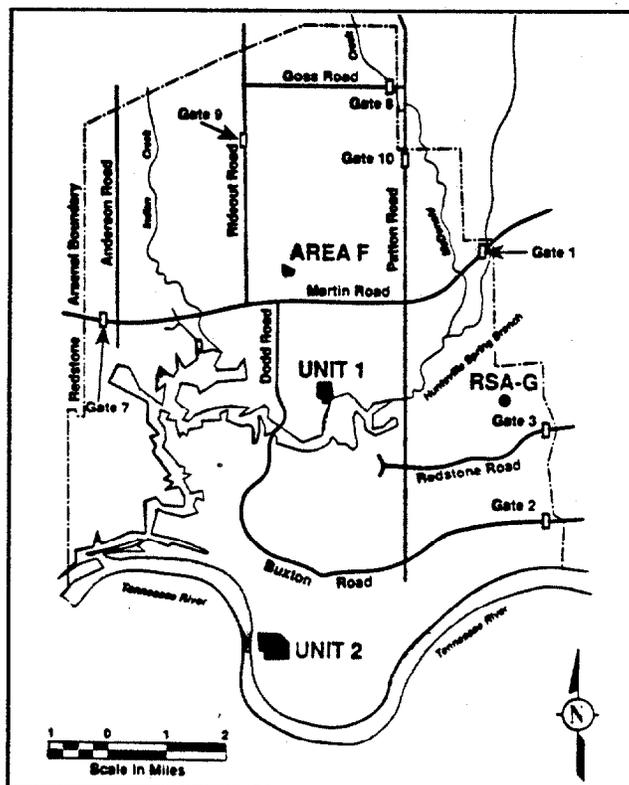
PURPOSE OF INTERIM CORRECTIVE MEASURES AT RSA

The U.S. Army has been evaluating past hazardous waste management practices at Redstone Arsenal. Studies are being performed to evaluate the practices in accordance with the requirements of the Resource Conservation and Recovery Act of 1976 (RCRA).

RCRA requires identification and corrective action at any solid waste management unit (SWMU) located on the installation which is releasing hazardous constituents to the environment. A SWMU is defined as any discernable waste management unit at a RCRA facility from which hazardous constituents might migrate, irrespective of whether the unit was intended for the management of solid and/or hazardous waste. This does not include units in which wastes have not been managed, product storage areas, or accidental spills from production areas.

In addition to RCRA, Congress established the Defense Environmental Restoration Program (DERP) in 1986. Under DERP, the Department of Defense (includes the Army) is required to identify, assess and remediate environmental problems, to protect the health and safety of installation personnel and the public, and to protect the quality of the environment. The portion of DERP applicable to real property currently controlled by the Army is the Installation Restoration Program (IRP).

In accordance with RCRA and DERP, Redstone Arsenal is implementing numerous corrective measures and interim corrective measures (ICMs) at SWMUs identified on the installation. These SWMU corrective actions are being performed under the IRP. This fact sheet addresses the ICMs to be implemented at four SWMUs: Unit 1, Unit 2, Area F and RSA-G.



LOCATION OF UNIT 1, UNIT 2, AREA F AND RSA-G

INTERIM CORRECTIVE MEASURE SITES

Unit 1 (RSA-10)

This SWMU is an active landfill comprised of two disposal facilities: a former sanitary landfill which is currently an active inert landfill; and the closed DDT Waste Soils Landfill. Unit 1 consists of approximately 68.5 acres bordered by woods to the north, another closed landfill to the east, wetlands and the Wheeler National Wildlife Refuge to the south, and NASA-leased land to the west. The area has been used for a variety of

wastes including household waste, waste oil, infectious waste, installation debris, asbestos, and ash from incinerated paper. A special SWMU constructed for the disposal of soils containing DDT waste is also located within the boundaries of this Unit. Contaminants identified in the groundwater include chlorinated hydrocarbons, benzene, toluene, ethylene and xylene, and various metals and pesticides.

Investigations at Unit 1 began in 1989 and a RCRA Facility Investigation (RFI) was completed in 1992. On March 27, 1992, the Alabama Department of Environmental Management (ADEM) issued a Notice of Violation to RSA directing that corrective measures be implemented. An ICM Design is currently being prepared to provide immediate treatment of contaminated groundwater using an air stripper followed by liquid phase carbon adsorption.

A Corrective Measure Study (CMS) also is underway for Unit 1. A CMS identifies alternatives for final corrective measures at a given site. The draft CMS for Unit 1 is under review by the Huntsville Division of the U.S. Army Corps of Engineers (USACE). The preferred alternative for final correction is groundwater treatment using advanced oxidation by ultraviolet light and hydrogen peroxide (UV/H₂O₂), and soil treatment by excavation/on-site incineration and capping.

Unit 2 (RSA-12, 13, 14, 131, 132, 133)

Unit 2 is an active open burn/open detonation (OB/OD) area located on the south end of RSA. This area is used for the disposal of explosives and explosive-contaminated materials. There are actually six SWMUs at Unit 2: the OB pans (RSA-12); unlined OB areas (RSA-13); waste burn trenches (RSA-14); OD area (RSA-131); former popping furnace (RSA-132); and former rocket washout pad (RSA-133). Explosives and volatile organic compounds (VOCs) were found in the soil layers at RSA-13 and -14, explosives were found in the sediment layer at RSA-14, and VOCs were found in the groundwater which exceed minimum action levels.

Environmental studies at Unit 2 began in 1989 and the RFI was completed in 1992. On March 27, 1992, ADEM issued a Notice of Violation to RSA directing that corrective measures be implemented. An ICM Design is currently being reviewed by the Savannah District of the USACE which will provide immediate treatment of contaminated groundwater using advanced oxidation with UV/H₂O₂. Additionally, a draft CMS is under review by the Huntsville USACE identifying alternative final corrective measures. The preferred alternative for final correction is groundwater treatment by air stripping and soil treatment by excavation/on-site incineration.

Unit 3/Area F (RSA-49)

Area F occupies approximately five acres in the center of RSA. Area F consists of three closed ponds used in the

1940s for the disposal of arsenic-contaminated waste from manufacturing facilities for Lewisite, a chemical blistering agent. Rubble and industrial wastes were used to fill the impoundments prior to the ponds being closed. The ponds were covered in 1977 and planted with grass and pine trees. Arsenic was found in the groundwater and soil, and polynuclear aromatic hydrocarbons (PAHs) were found in the soil.

Environmental studies began in 1989. The RFI was completed in 1992. On March 27, 1992, ADEM issued a Notice of Violation to RSA directing that corrective measures be implemented at Area F. An ICM Design is currently being prepared which will provide for placement of a clay cap over the former ponds and a fence around the area. A draft CMS is under review by the Huntsville USACE. The preferred final correction alternative for groundwater is pretreatment only, and for soil is no further action.

RSA-G

RSA-G is the area surrounding the Thiokol Degreaser at Building 7664. RSA-G is within the Thiokol Complex, a government-owned contractor-operated facility, located in the southeast portion of RSA. Groundwater and soil at this site is contaminated, primarily with trichloroethene (TCE).

Environmental studies at RSA-G began in 1989. Phase II of the RFI is now nearing completion. There is no outstanding ADEM Notice of Violation for RSA-G. An ICM Design is in progress which will provide immediate treatment of contaminated groundwater using advanced UV/H₂O₂ oxidation. To date, a CMS has not been initiated.

REQUEST FOR PUBLIC PARTICIPATION

A Community Relations Plan (CRP) or Public Involvement and Response Plan (PIRP) is required for all DERP properties that have sites included on or proposed for inclusion on the National Priorities List (NPL). Redstone Arsenal was placed on the proposed NPL on June 23, 1993 (Federal Register Vol 58, No 119). A CRP/PIRP is currently being prepared for the four sites specifically identified in this fact sheet: Unit 1, Unit 2, Area F and RSA-G. The CRP/PIRP will be implemented throughout the interim corrective measure design at these sites. The CRP/PIRP will then be reviewed and/or revised as appropriate to provide for public involvement throughout the corrective action phases.

Upon availability of a draft final CMS, a press release and public notice will announce the availability of the document during a 45-day public comment period including a public meeting. The public will be asked to

comment on the preferred and other alternatives from among those which were studied for the corrective action. Public meetings will be hosted by the MICOM Public Affairs Office and supported by the responsible USACE. Local, state and Army representatives will be invited. All issues will be discussed and the public will have an opportunity to ask questions directly to a panel of site investigators, as well as to the attending representatives.

PUBLIC INFORMATION

A public information repository has been established for public access to the data and reports regarding site investigations, studies, and other activities conducted under the RSA IRP. Reports are released to the repository in final form after regulatory review. Press releases and fact sheets will be included in the collection. The collection will be updated as information becomes available. The information contained in the repository is available through ADEM and on-site at the MICOM Public Affairs Office at Redstone Arsenal. The primary off-site location is:

Huntsville-Madison County Library
915 Monroe Street, SW
Huntsville, Alabama 35804 (205) 532-5957

The information may also be obtained through the:

Town Hall, Town of Triana
640 Sixth Street
Madison, Alabama 35758 (205) 772-0151

A public announcement will be made whenever copies of CRP/PIRP, ICM Design reports, CMS reports and other pertinent documents are available for public review at the information repositories. The local Huntsville newspapers will also be used for press releases and public announcements.

The Army encourages the public to visit the information repositories and attend any public meetings to become more knowledgeable about the environmental studies at RSA. If you did not receive this fact sheet in the mail and would like to be placed on a mailing list to receive future notices regarding the DERP activities, please complete the form at the bottom of this page and mail to the address below.

FOR FURTHER INFORMATION:

The following Army representative has been identified as the point of contact regarding Redstone Arsenal remediation activities under the DERP Program:

Mr. Ed Peters, Public Affairs Specialist
Public Affairs Office
U.S. Army Missile Command
Redstone Arsenal, Alabama 35898-5020

(205) 842-0560

Prepared for the U.S. Army Corps of Engineers, Savannah District, and Redstone Arsenal.

REQUEST FOR INCLUSION ON THE MAILING LIST REDSTONE ARSENAL DERP

Please print your mailing address here and return to the MICOM Public Affairs Office of Redstone Arsenal. You will receive notice of public meetings or environmental program status as it becomes available.

Name _____

My particular interests and/or
concerns are:

Affiliation _____

Address _____

City _____ State _____ Zip _____

Telephone (optional) _____

Comments:

APPENDIX G

COMMUNITY INTERVIEW QUESTIONNAIRE
FOR PUBLIC INVOLVEMENT AND
RESPONSE PLANNING

Date: _____ Time: _____

Location: _____

Person(s) Being Interviewed: _____

Affiliation: _____

Other Attendees: _____

Interviewer(s): _____

Present introduction and purpose. Interviewee's identity is confidential unless otherwise permitted for disclosure. Information is used in developing PIRP only.

1a. What is your name, address, and telephone number?

1b. Do you wish to be on the mailing list? Yes No (public or private listing?)

2a. Are you aware of any environmental problems or issues at Redstone Arsenal?
Yes No

2b. Describe what you understand to be the problem.

3. When did you first become aware of the environmental issues at Redstone Arsenal?

4. What is your understanding of the history of this situation?

5. What contacts have you had with Army or other government officials about the situation?
("government" includes city, county, state, federal, Army, etc.)

6. Do you feel these officials have been responsive to your concerns?

7. What are your current concerns related to Redstone Arsenal?

8. Have you participated in activities concerning this situation? Yes No
If so, what types of activities?

9. Would you participate in future activities concerning this situation? Yes No
If so, what types of activities?

10. What other types of activities do you think are appropriate for learning about or discussing
Redstone Arsenal environmental activities?

11. Has anyone contacted you to express concern about this situation? Yes No
If so, what are his/her primary concerns?

12. How can Redstone Arsenal or the Army best provide you with information concerning the environmental studies at the post? (newspaper, television, radio, information repositories, personal interviews/contacts, community meetings, direct mailing, other)

a. Which newspapers do you monitor?

b. Which radio and TV stations do you listen to for PSA/news?

c. What locations can you suggest for informal and formal public meetings or gatherings?

d. Can you suggest convenient or appropriate locations for use as a repository to maintain information regarding this activity?

13. How can Redstone Arsenal/Army best receive the community's concerns/comments?

14. Can you suggest any other individuals or groups that should be contacted for additional information, to identify other types of concerns, or who would want to be on the mailing list?

15. Is there anything you wish to mention that we have not yet discussed?

Water Use Information, if applicable

Do you have a well? Yes No If so, for what uses?

Do you use any springs or surface waters in your yard? Yes No If so, do you use them?

What water sources do you use at home, work and for recreation?

Optional Personal Information

Do you have a vegetable garden? Yes No If so, describe.

Do you raise livestock? Yes No If so, describe.

Do you fish or hunt? Yes No If so, describe.

Ages of household members.

**REQUEST OF INCLUSION ON THE MAILING LIST
REDSTONE ARSENAL DERP**

Please print your mailing address here and return to the MICOM Public Affairs Office of Redstone Arsenal. You will receive notice of public meetings or environmental program status as it becomes available.

Commander
U.S. Army Missile Command
ATTN: AMSMI-IN (Ms. Pamela Rogers)
Public Affairs Office
Redstone Arsenal, AL 35898-5020
(202) 842-0560

Please check one: Private citizen (non-public listing)
 Public organization/representative

Name: _____

Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone (optional) _____

My particular interests and/or concerns are:

Other comments:

**APPENDIX H
ABBREVIATIONS AND ACRONYMS**

ADEM	Alabama Department of Environmental Management
AMC	U.S. Army Materiel Command
AR	Army regulation
ATSDR	Agency for Toxic Substances and Disease Registry
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980 (also known as Superfund)
CMS	Corrective Measure Study, RCRA
CRP	Community Relations Program (or Plan)
DDT	Dichloro-diphenyl-trichloroethane (insecticide)
DERA	Defense Environmental Restoration Account, DERP
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
EPA	U.S. Environmental Protection Agency
FFA/IAG	Federal Facilities Agreement/Interagency Agreement
FS	Feasibility Study, CERCLA
FUDS	Formerly used defense site, DERP
HRS	Hazard Ranking System
ICM	Interim Corrective Measure, RCRA
ICUZ	Installation Compatible Use Zone
IRA	Interim Remedial Action/Immediate Removal Action, CERCLA
IRP	Installation Restoration Program, DERP
MICOM	U.S. Army Missile Command, AMC
MSFC	George C. Marshall Space Flight Center, NASA
msl	mean sea level
NASA	National Aeronautic and Space Administration
NCP	National Oil and Hazardous Substances Pollution Contingency Plan of 1982
NOV	Notice of Violation
NPL	National Priorities List
PA/SI	Preliminary Assessment/Site Investigation
PCB	Polychlorinated biphenyl
PIRP	Public Involvement and Response Plan
RCRA	Resource Conservation and Recovery Act of 1976
RD/RA	Remedial Design/Remedial Action
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation

RI	Remedial Investigation, CERCLA
ROD	Record of Decision
RSA	Redstone Arsenal
SARA	Superfund Amendments and Reauthorization Act of 1986, CERCLA
SWMU	Solid waste management unit
TAG	Technical Assistance Grant
TCE	Trichloroethylene, also trichloroethene
TRC	Technical Review Committee
TVA	Tennessee Valley Authority
USACE	U.S. Army Corps of Engineers
USAEC	U.S. Army Environmental Center (formerly USATHAMA)
USAEHA	U.S. Army Environmental Hygiene Agency
USATHAMA	U.S. Army Toxic and Hazardous Waste Management Agency