

INSTALLATION ACTION PLAN

**For
ROCK ISLAND ARSENAL**



March 2001

**INSTALLATION ACTION PLAN
for
ROCK ISLAND ARSENAL**



Fiscal Year 2001

PURPOSE

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year restoration program for an installation. The plan will define Installation Restoration Program (IRP) requirements and propose a comprehensive approach and associated costs to conduct future investigations and remedial actions at each Solid Waste Management Unit (SWMU) at the installation and other areas of concern.

In an effort to coordinate planning information between the IRP manager, major army commands (MACOMs), installations, executing agencies, regulatory agencies, and the public, an IAP has been completed for the Rock Island Arsenal (RIA). The IAP is used to track requirements, schedules and tentative budgets for all major Army installation restoration programs.

All site specific funding and schedule information has been prepared according to projected overall Army funding levels and is therefore subject to change during the document's annual review. RIA is on an accelerated schedule and currently has the goal to be complete with remedial actions by 2002.

APPROVAL

ROCK ISLAND ARSENAL

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Remedial Project Manager
Rock Island Arsenal

RANDALL D. CORBIN
Colonel, U.S. Army
Commanding

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Program Manager, OSC

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ACRONYMS & ABBREVIATIONS

ABA	Abandoned Burn Area
AEC	Army Environmental Center
ALF	Abandoned Landfill
ADRA	Ammunition Demilitarization and Renovation Area
ATSDR	Agency for Toxic Substances & Disease Registry
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
Cr	Chromium
Cu	Copper
DCE	Deputy Commanding Engineer
DERA	Defense Environmental Restoration Account
DERP/MIS	Defense Environmental Restoration Program/Management Information System
DMA	Demolition Area
DNT	2,4 Dinitrotoluene
DRMO	Defense Reutilization and Marketing Office
DRMS	Defense Reutilization and Marketing Service
DSA	Diesel Spill Area
DSERTS	Defense Site Environmental Restoration Tracking System
EFFIF	Existing Fire-Fighting Training Facility
ENSR	Environmental Contractor
EPA	Environmental Protection Agency
ERA	Environmental Restoration, Army (formally called DERA)
EPIC	Environmental Photographic Interpretation Center
FD -A	Fuel Disposal Site A
Fe	Iron
FFA	Federal Facilities Agreement
FFSRA	Federal Facility Site Remediation Agreement
FS	Feasibility Study
FY	Fiscal Year
GOCO	Government Owned Contractor Operated
gpm	gallons per minute
HMX	Cyclotramethylenetrinitramine
HRS	Hazard Ranking Score
IAG	Interagency Agreement
IAP	Installation Action Plan
IRA	Interim Remedial Action
IRIP	Installation Restoration Incineration Program
IRP	Installation Restoration Program
K	Thousand
LAP	Load, Assemble, and Pack
LIM	Long Term Monitoring
MCL	Maximum Contaminant Level
NB	Nitrobenzene
NE	Not Evaluated
NFA	No Further Action
NPL	National Priority List

ACRONYMS & ABBREVIATIONS

LIST OF ACRONYMS AND ABBREVIATIONS CONTINUED...

OB/OD	Open Burn/Open Detonation
OU	Operable Unit
OSC	Operation Support Command (replaced IOC)
PA	Preliminary Assessment
PAH	Polycyclic Aromatic Hydrocarbons
Pb	Lead
POL	Petroleum, Oil & Lubricants
PP	Proposed Plan
ppb	parts per billion
RA	Remedial Action
RA(C)	Remedial Action - Construction
RA(O)	Remedial Action - Operation
RAB	Restoration Advisory Board
RBC	Risk Based Concentrations
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RDX	Cyclonite
REM	Removal
RI	Remedial Investigation
RIA	Rock Island Arsenal
RIP	Remedy in Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
Sb	Antimony
SI	Site Inspection
SOC	Statement of Condition
SOP	Standard Operating Procedures
STP	Sewage Treatment Plant
SWMU	Solid Waste Management Unit
SVOC	Semi-Volatile Organic Compounds
TCE	Trichloroethylene
TNB	1,3,5 Trinitrobenzene
TNT	Trinitrotoluene
TPHC	Total Petroleum Hydrocarbons
TRC	Technical Review Committee
Ug/g	microgram per gallon
Ug/l	microgram per liter
USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
USACE	United States Army Corps of Engineers
USAEC	United States Army Environmental Center
USAEHA	United States Army Environmental Hygiene Agency (replaced by CHPPM)
USATHMA	United States Army Toxic and Hazardous Material Agency (replaced by AEC)
UST	Underground Storage Tank
UXO	Unexploded Ordnance
VOC	Volatile Organic Compounds

SUMMARY

STATUS	Potential off-post ground water contamination Non-NPL with RCRA part A status			
NUMBER OF DSERTS SITES:	30 DSERTS sites 3 Active ER,A Eligible Sites 2 Response Complete ER,A Eligible 25 Not ER,A eligible			
DIFFERENT DSERTS SITE TYPES:	3	Landfills		
	18	Hazardous Waste Accumulation Areas		
	3	UST/AST	1	Ash Pile
	1	Quarry	2	Burial Sites
	2	Storage Areas		
CONTAMINANTS OF CONCERN:	Petroleum, Oil, Lubricants			
MEDIA OF CONCERN:	Groundwater, Soil			
COMPLETED REM/IRA/RA:	UST Removal (1989)		\$ 70K	
CURRENT IRP PHASES:	RI/FS at 1 sites, RC at 3 sites, RD/IRA at 1 site Not Eligible at 25 sites			
PROJECTED IRP PHASES:	RD/RA (1 sites) LTM at 1 site RC at 3 sites, NFA (25 sites)			
IDENTIFIED POSSIBLE REM/IRA/RA:	IRA at 2 sites (RIA-001,014)			
FUNDING:	PRIOR YEAR THROUGH 2001: \$ 6,266 K FY2001: \$ 4,644 K FUTURE REQUIREMENTS: \$ 8,065 K TOTAL: \$ 18,975 K			
DURATION:	YEAR OF IRP INCEPTION:		1979	
	YEAR OF IRP COMPLETION INCLUDING LTM:		2030	

INSTALLATION INFORMATION

LOCALE

RIA, located in Rock Island County, Illinois, is a 950 acre island in the Mississippi River. The Iowa cities of Davenport (pop. 95,333) and Bettendorf (pop. 28,139) are located immediately north across the Mississippi River. They are the two large cities in Scott County. The Illinois cities of Rock Island (pop. 40,552) and Moline (pop. 43,202) are located immediately south of RIA and separated by a channel of the Mississippi River called the Sylvan Slough and the Moline Pool. They are two of the larger cities in Rock Island County. Henry County is about 6 miles from the Arsenal.

COMMAND ORGANIZATION

MAJOR COMMAND: U.S. Army Materiel Command; Engineering, Housing, Environmental and Installation Logistics, Environmental Quality Division

SUBCOMMAND: U.S. Army Operations Support Command; Industrial Base Management Center; Restoration Management Team, Rock Island, IL

INSTALLATION: Rock Island Arsenal, Public Works Directorate, Environmental Office

INSTALLATION RESTORATION PROGRAM (IRP) EXECUTING AGENCY

- Investigation Phase Executing Agency: Installation and U.S. Army Corps of Engineers (USACOE), Louisville Division with Nashville as action agency, and other contractors.
- Remedial Design/Action Phase Executing Agency: Installation and U.S. Army Corps of Engineers, Louisville Division with Nashville as action agency.

REGULATOR PARTICIPATION

FEDERAL: U.S. Environmental Protection Agency, Region V

STATE: Illinois Environmental Protection Agency (IEPA)

REGULATORY STATUS

- Non-NPL, potential off-post contamination
- RCRA Interim Part A status, 1978, Part B Permit withdrawn upon successful closure of Building 242, the Hazardous Waste Container Storage Building, in 1995, now operating as 90-day facility
- RCRA Closure Actions, Building 64, Closure Plan in progress
- Interagency Agreement, None
- Clean Water Act violation of Trihalomethane exceedance prior to December 1995. In December 1995, the Potable Water Treatment Plant modification was successful. Since the modification of the Potable Water Treatment Plant, RIA has met compliance.

INSTALLATION DESCRIPTION

Rock Island Arsenal (RIA) is an active U.S. Army Operations Support Command (OSC) Installation. Rock Island Arsenal has three distinct missions comprised of: (1) Manufacture of artillery, gun mounts, recoil mechanisms, small arms and spare parts; (2) Perform tool set and basic issue items (BII) fabrication and assembly for IOC and other AMC Major Subordinate Commands; and, (3) Provide administrative, logistical and facility support services for RIA, Headquarters, OSC, and a number of tenant activities.

The site (Arsenal Island) is an island about 3 miles long and three-fourths of a mile wide bound on the north by the Mississippi River, and the south by a channel of the Mississippi River called the Sylvan Slough and Moline Pool. Arsenal Island is divided into three separately owned areas: RIA, 907 acres; U.S. Army Corps of Engineers, 11 acres; and the Veterans Administration, 31 acres (National Cemetery, 28 acres; and a Confederate Cemetery, 3 acres).

Arsenal Island is in the center of the Quad-Cities region, surrounded on all sides by four cities. The land used in the cities consists of: retail, services, administrative, industrial; transportation, wholesaling, warehousing, communications, utility, recreation, exhibition, conservation, and cemetery.

Arsenal Island has been owned and operated by the government since the United States acquired the title to the land in 1804 through a treaty with the Sauk and Mesquakie (Fox) Indians. The U.S. flag flew above the island long before any of the communities of the surrounding area were founded. Even before Illinois and Iowa achieved statehood, the U.S. Army established a significant military presence on the island with the building of Fort Armstrong in 1816. The fort served as a sanctuary to early pioneers who sought refuge behind its walls during the threatening days of the early frontier.

In July 1862, the United States Congress passed an act which established an arsenal on Rock Island. Prior to the construction of permanent arsenal buildings, however, the U.S. Army began building a prisoner of war camp on the island. A total of 12,192 Confederate soldiers were confined at Rock Island during the Civil War years of 1863-1865. Construction of the first manufacturing shop buildings began in 1866 and continued until the last Stone Shop was completed in 1893.

Arsenal Island and the swing span bridge leading to it were nominated to the National Register of Historic Places (NRHP) as an Historic District in 1969. The State Historic Preservation Officer (SHPO) met with the officials from RIA in 1988 to establish contributing structures within the NHRP District.

The historic nineteenth century manufacturing core of RIA was further designated a National Historic Landmark (NHL) District in 1987. The NHL District is composed of two distinct zones: the nineteenth century manufacturing core (Zone 1), and the officers quarters (Zone 2).

The Arsenal has evolved over the years into a center for technical excellence for weaponry and support equipment. Completion of — Renovation of Armament Manufacturing (REARM) — a multi-year (1982-1989) modernization project greatly enhanced the physical plant, machine tool inventory, and data processing capabilities.

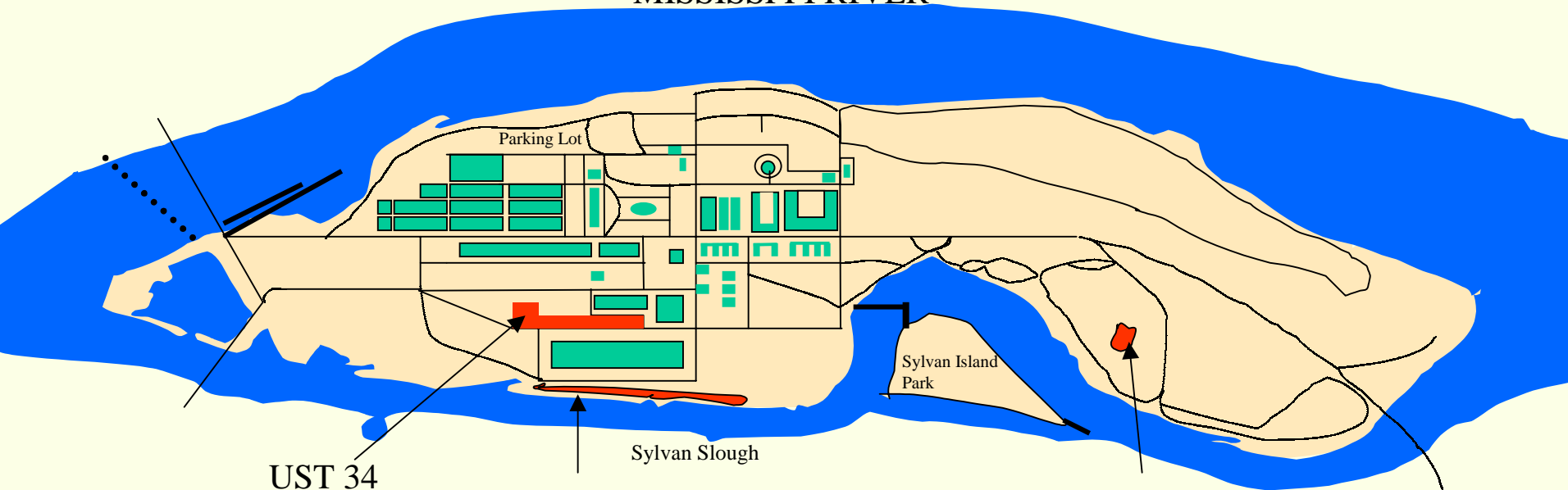
Rock Island Arsenal's major tenant is the U.S. Army Operations Support Command (OSC), a field command of the U.S. Army Materiel Command. The OSC directs the operations of 3 Arsenals, 17 active and 6 inactive Ammunition Plants, a Research Development and Engineering Center and a Defense Ammunition Center and School.

INSTALLATION DESCRIPTION

The U.S. Army Corps of Engineers owns and operates Lock and Dam No. 15 and maintains a district office on Arsenal Island which is responsible for administrating federal water resource development programs in Iowa, Illinois, Wisconsin, Missouri, and Minnesota.

The Veterans Administration maintains two cemeteries on Arsenal Island. The National Cemetery, located on the eastern end of Arsenal Island, inter U.S. military Veterans, spouses and dependent children. The Confederate Cemetery, situated near the southern border of the island, contains the remains of 1,959 prisoners who died on Arsenal Island during the Civil War.

MISSISSIPPI RIVER







UST 34
RIA-014

Old Landfill
RIA-001

Quarry
RIA-008



Legend

-  Buildings
-  DSERTS sites
-  Land
-  Water
-  Roads

Map of Arsenal Island

CONTAMINATION ASSESSMENT

The Rock Island Arsenal has a total of 3 sites of environmental concern. These sites include industrial and construction debris landfills, storage tanks, quarry, training area, storage areas and burial sites. Three sites are response complete and two are active at this time. 25 sites that were/are in operation are not ER,A eligible. These include 18 accumulation areas that were in operation at the time of the survey.

Since the early 1900's over 40 underground storage tanks (USTs) have been installed at Rock Island Arsenal. The USTs have been used to store a variety of fuels and solvents, including diesel fuels, gasoline, kerosene, dry cleaning solvent, used oil and used water-soluble cutting fluids. To date, 33 USTs have been removed and 7 USTs are being utilized. The remaining 7 USTs are used for gasoline (1), diesel fuel (2), used water-soluble cutting fluid (1), used oil (1), and as reserve for quench oil emergency fire suppressant (2). There are also many above ground diesel fuel storage tanks used for heating and for emergency power.

During the removal of USTs 8, 9, 10, and 11 soils contaminated with chlorinated solvents were identified. The soil in the immediate area was removed and monitoring wells were installed downgradient. No further contamination of this site (RIA-002) has been observed.

In 1979, an Installation Assessment of RIA was conducted by United States Army Toxic and Hazardous Materials Agency. This assessment was to evaluate the environmental quality of RIA with regard to the use, storage, treatment, and disposal of toxic and hazardous materials and to define any conditions that may adversely affect health and welfare or result in environmental degradation. Thirty-one sites were listed as potentially contaminated sites. (Currently, this list has been narrowed down to the three open actions, the Quarry site around the test rack, the plume from an underground tank removal south of building 250, and the Old Landfill site.)

In 1987, an Update of the Initial Assessment of RIA was conducted to determine if conditions had changed. This report indicated a clay cap has been placed over the landfill. However, the need to investigate all contaminants is required by the Army. At this point, the three remaining sites became part of the RIA Installation Restoration Action Plan for cleanup.

There are a total of 65 monitoring wells on RIA. The wells are associated with the landfills, the POL/UST areas, the quarry, building 64 RCRA closure, and background areas. After the major Mississippi River flood in 1993 all of the monitoring wells were sampled. There were some changes from previous sampling results. The area of major concern is the landfill, site RIA-001, because of semi-volatile organics. The results identified an increased potential for off-site contamination and ER,A funding was available for the Phase I Remedial Investigation (RI), Technical Management Plan Phase II RIA with a Risk Assessment and a Ground Water Classification Investigation (GWCI). The Technical Management Plan (TMP) is useful for future investigations requiring only modifications and updating. The TMP, which includes the Community Relations Plan (CRP), was completed in FY97. The GWCI was completed in November 1997 and it will be used for determining the basic cleanup objectives not only for the landfill site, RIA-001, but for all sites on Rock Island Arsenal.

RIA is currently a large-quantity 90 day generator of hazardous waste. A Part B permit Application was withdrawn and the Hazardous Waste Container Storage Unit was properly closed. It is now used as an accumulation area.

CONTAMINATION ASSESSMENT

The RIA water treatment facility processes Mississippi River water. Modifications which allow the use of chlorine and ammonia as disinfectant were completed in 1995. The modified Potable Water Treatment Plant has been in compliance since its inception.

RIA sends its sanitary effluent to the City of Rock Island POTW; the permit with the city includes total effluent and two pretreatment industrial wastewater facilities. The RIA has a general NPDES for storm water. RIA has a NRC materials license for storage and usage of radioactive material. The main sources are thorium and tritium.

RIA has 19 IEPA permits for 191 air emission sources, all of which have been submitted under the Title V section of the Clean Air Act. The Title V application was approved by IEPA for use as blanket coverage for all air permits on RIA that are listed in the application until the permit is approved.

PREVIOUS STUDIES

Title	Author	Date
Installation Assessment of Rock Island Arsenal Report No. 164, USATHAMA, Aberdeen Proving Ground, Maryland.	US Army Toxic and Hazardous Materials Agency (USATHAMA)	Dec-79
Water Pollution Study for Rock Island Arsenal, Rock Island Illinois, Contractor: Harland Bartholomew and Associates, Northbrook, Illinois.	US Corps of Engineers (COE), Contractor: Harland Bartholomew and Associates, Northbrook, Illinois.	Mar-79
Installation Assessment Relook Program, Working Document, Rock Island Arsenal 85x-27, Contract No. 68-03-3161, USATHAMA, Aberdeen Proving Ground, Maryland.	US Army Toxic and Hazardous Materials Agency (USATHAMA)	Aug-96
Update of the Initial Installation Assessment of Rock Island Arsenal, IL, USATHAMA, Aberdeen Proving Ground, Maryland.	US Army Toxic and Hazardous Materials Agency (USATHAMA)	Jul-98
Interim Report, Groundwater Contamination Survey NO. 38-26-0308-89, Evaluation of Solid Waste Management Units, Rock Island Arsenal, Rock Island Illinois, AEHA, Aberdeen Proving Ground, Maryland	US Army Environmental Hygiene Agency (AEHA)	16-21 May 1988
Geohydrologic Study NO. 38-26-8814-90, RCRA Facility Assessment Sampling Investigation, Rock Island Arsenal, Rock Island Illinois, AEHA, Aberdeen Proving Ground, Maryland	US Army Environmental Hygiene Agency (AEHA),	18-28 September 1989
POL Facility Investigation of Leaking Underground Storage Tanks, Rock Island Arsenal D&A, Engineers Inc, Peoria, Illinois.	Daily and Associates, D&A	May-91
Guidance Document for Renovation/Demolition, Buildings 65 and 106, Rock Island Arsenal, Rock Island Illinois,	US Corps of Engineers (COE), Contractor: TCT-St.Louis, St. Louis, Missouri.	Jan-92
Site Investigation in Support of the Closure of the Building 33 Hazardous Waste Management Unit, Rock Island Arsenal	Daily and Associates, D&A	Feb-92
Guidance Document for Renovation/Demolition of Buildings 58, 59, 66, 69, and 72 at Rock Island Arsenal, Rock Island Illinois,	US Corps of Engineers (COE) Contractor: TCT-St.Louis, St. Louis, Missouri.	Feb-92

PREVIOUS STUDIES

Title	Author	Date
Building 251/254 Site Investigation (Former TNT Building), Rock Island Arsenal Final Report, D&A, Engineers Inc, Peoria, Illinois.	Daily and Associates, D&A	May-92
Specification Number 3230-2008, PR Number 8-91, Environmental Cleanup Buildings 64, Rock Island Arsenal, Rock Island Illinois, Contractor:	US Corps of Engineers (COE) TCT-St.Louis, St. Louis, Missouri.	May-93
Addendum No. 1 Site Investigation in Support of Closure of the Building 33 Hazardous Waste Management Unit, Rock Island Arsenal, Final Report D&A, Engineers Inc, Peoria, Illinois.	Daily and Associates, D&A	Dec-93
Groundwater Quality Consultation No. 38-66-kv27-94, Phase I & II, Rock Island Arsenal, Rock Island, Illinois, 13-18 September 1993 and 1-5 November 1993, AEHA-W, Fitzsimmons Army Medical Center, Aurora, Colorado.	US Army Environmental Hygiene Agency (AEHA)	Feb-94
Technical Management Plan for the Rock Island Arsenal, Rock Island, Illinois	U.S. Army Corps of Engineers, Contractor: Science Applications International Corporation, Oak Ridge, Tennessee.	May-97
Phase I Remedial Investigation Report, Old Landfill, Rock Island Arsenal, Rock Island, Illinois	U.S. Army Corps of Engineers, Contractor: Maxim Technologies Inc., St. Louis, Missouri.	Jun-97
U.S. Army Rock Island Arsenal, Rock Island, Illinois, Installation Restoration Program, Community Relations Plan	U.S. Army Corps of Engineers, Contractor: Science Applications International Corporation, Oak Ridge, Tennessee.	Aug-97
Phase II Remedial Investigation Report, Old Landfill, Rock Island Arsenal, Rock Island, Illinois,	U.S. Army Corps of Engineers, Contractor: Science Applications International Corporation, Oak Ridge, Tennessee.	Dec-99
Extended Site Inspection Report, the Old Quarry Site.	U.S. Army Center for Health Promotion and Preventive Medicine	Sep-99
Remedial Investigation, Old Quarry Site, Rock Island Arsenal, Rock Island IL	U.S. Army Center for Health Promotion and Preventive Medicine	1-Jul-00

**ER, A ACTIVE
ROCK ISLAND ARSENAL
DSERTS SITES**

RIA-001

OLD LANDFILL

SITE DESCRIPTION

The Old Landfill occupies approximately 20 acres in the south central part of RIA. Historical records have indicated that a variety of wastes generated by the industrial processes at RIA were potentially disposed of in the Old Landfill during its active life. Historical records have also indicated that the Old Landfill was active between 1920 and 1965. Waste oils, solvents, and other liquids were poured into pits and either burned or allowed to percolate into the ground. Additionally, industrial wastes, including degreaser sludges, heat-treating salts, electroplating solutions, sludges, and wastewaters from operation on RIA were disposed of in this area.

In 1978, a Water Pollution Study was conducted by Harland Bartholomew and Associates to evaluate the potential seepage of pollutants from the landfill. Five wells were installed and leachate was extracted and tested. A significant amount of oil was found as well as elevated levels of iron, zinc, and nickel, but it was surmised that the probability of significant movement of heavy metals and oil to the slough was very small.

In 1979, an Installation Assessment of RIA was conducted by United States Army Toxic and Hazardous Materials Agency. This assessment was to evaluate the environmental quality of RIA with regard to the use, storage, treatment, and disposal of toxic and hazardous materials and to define any conditions that may adversely affect health and welfare or result in environmental degradation. Thirty-one sites were listed as potentially contaminated sites. (Currently, this list has been narrowed down to three open actions, the Quarry site around the test rack, the plume from an underground tank removal south of building 250, and the Old Landfill site.)

In 1987, an Update of the Initial Assessment of RIA was conducted to determine if conditions had changed. This report indicated a clay cap has been placed over the landfill, however, the need to investigate all contaminants is required by the Army. At this point, the three remaining sites became part of the RIA Installation Restoration Action Plan for cleanup.

The Nashville Corps of Engineers was hired to act as the project manager for the cleanup of the landfill.

In 1994 and 1995, a Phase I remedial investigation was conducted by the subcontractor Maxim Technologies. The overall objective was to assess the nature of the contamina-

tion present at the landfill. In addition to a search of historical records, a topographic survey, site maps, magnetometer sweep, geophysical survey, sampling and analysis of soil and water, permeability testing groundwater elevation, installation of monitoring wells, and other items were performed.

In 1997 and 1998, a Phase II remedial investigation was conducted by the subcontractor Science Applications International Corporation. The field activities associated with this investigation included obtaining additional characterization data to complement the Phase I results, support the baseline human health risk assessment and ecological risk assessment, and define the extent of contamination with respect to the hot spots.

In December 1999, a Final Remedial Investigation Report was prepared by the Nashville COE. The recommendations in the report stated the following: The nature and extent data and risk assessment findings should be used in the feasibility study to develop remedial alternatives for the Old Landfill. IEPA-developed alternate concentration limits (ACLs) should be used as remediation goals for groundwater and applied at the point of compliance as part of a long-term groundwater monitoring program. The ACLs should also be used to back-calculate soil cleanup levels for the Old Landfill contaminants of concern.

In March 2000, a Draft Feasibility Study was prepared by the Nashville COE indicating 11 alternatives to close the site. After a screening evaluation of the alternatives, five site-wide alternatives were retained. Based on the detailed evaluation in the feasibility study, alternative 4, capping combined with hot spot removal, product recovery, and monitoring of the groundwater and surface water, was considered to provide the best balance between short and long term effectiveness, implementability, cost, and will reduce the risks to human receptors to within the National Contingency Plan risk range and is protective of ecological receptors. Alternative 4 is approximately 27M. This cost estimate is above the previous estimate as all parameters of the cleanup were not known at the time the previous estimate was made.

In June 2000, an Internal Technical Review by the Army Environmental Center was conducted on the Old Landfill Project at RIA. The review is ongoing. The purpose of the oversight group is to review projects to ensure that installations are attaining the appropriate level of risk reduction while maximizing the effective and efficient use of environmental restoration funds. The Internal Technical Review team is not a decision-making body. They serve only to advise and provide

RIA-001 OLD LANDFILL

recommendations to the installation. A draft report was received and reviewed by RIA, the Nashville COE, and the Illinois EPA. A final report of recommendations will be written and sent to the installation during FY2001.

Also, in FY2001, a work plan was written for further sampling and analysis of the slough bank to determine groundwater discharge points. Additionally, skimming of free product and installation of compliance wells, as well as soil vapor extraction will occur during this fiscal year. The RA is scheduled for FY02.

In 1996, the XYZ Fire Training Area (RIA - 003) was combined with the Landfill (RIA - 001) per guidance from the Army Environmental Center. The XYZ area was three rows of ten buildings where fire training activities were carried out. The training consisted of fire training personnel using wood and other combustible materials during training exercises inside the buildings. The training was discontinued in 1982. There is no evidence of the use of solvents or fuels. The site was covered with grass after the buildings were removed. Portions of the area have been used for equipment storage and parking.

The following 1383#'s have been discontinued:
 RI/FS(1383# RIA094-021 & RIA094-022)
 IRA (1383# RIA095-001)
 RA (1383# RI0089F007 & RIA0091024)
 CLEANUP/CAP (1383# RI-SW-8 & RIA0091023)

PROPOSED PLAN

Dependant upon the finding of the Phase II RI/FS, the RA should consist of removal of soil where contamination is significant enough to warrant followed by the capping of the landfill. Following the RA, RAO & LTM will follow for 30 years to insure the site is clean before closing the site in DSERTS.

IRP STATUS

RRSE RATING: High Risk (1B)

CONTAMINANTS OF CONCERN:

POL, solvents, pesticide, vinyl chloride, semi-volatiles

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

RI/FS (1383# RIA095-002), IRA, RD,

FUTURE IRP PHASE:

RA, RAO, LTM



CONSTRAINED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
RI/FS	2700	193					
IRA	1011						
RD	500	150	135				
RA(C)		3310					
RA(O)			100	100	100	100	19000
LTM	100	153	153	153	153	153	2295
PROJECTED TOTAL:					\$30,559,000		

RIA-008

OLD QUARRY FILLED WITH WATER

SITE DESCRIPTION

RIA-008 is located on the east end of the island near the National Cemetery. Limestone rock was mined from the quarry until 1862. Since then the quarry filled with water and has been used for disposal of materials, which could include civil war debris. The depth of the quarry is approximately 6 feet and is nearly silted in.

Monitoring wells were installed in the area in 1989, and were sampled again in 1993. The results did not exceed IEPA ground water Standards.

USACHPPM conducted sediment sampling during the RI/FS in FY98 to insure the site is clean before closing the site in DSERTS. Three additional monitoring wells were installed and sampled also.

The RI/FS was conducted and recieved in December 2000. It showed metals contamination above class I groundwater.

PROPOSED PLAN

A recommendation of institutional control is being reviewed by IEPA.

IRP STATUS

RRSE RATING: Low Risk (3A)

CONTAMINANTS OF CONCERN:

Inert Material, scrap metal, unknown

MEDIA OF CONCERN:

Groundwater, Soil,

COMPLETED IRP PHASE:

RI

CURRENT IRP PHASE:

RA (institutional control)

FUTURE IRP PHASE:

RA (institutional control)

CONSTRAINED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
RI/FS							
IRA							
RD							
RA(C)							
RA(O)							
LTM							
PROJECTED TOTAL:						\$0	

RIA-014

UST 34

SITE DESCRIPTION

RIA-014 is a former site near buildings 250, 251, and 254. During the removal of UST 34 contamination was discovered. An interim remedial action removed about 200 cubic yards of contaminated soil in conjunction with the removal of the abandoned UST in 1989. The soil was sent to a permitted landfill manifested as special waste. A partial RI has been completed, and the plume migration pathways have been identified. The Polynuclear Aromatic (PNA) hydrocarbons are the contaminants of concern.

Currently, an RI/FS workplan is being staffed to IEPA for review.

IRP STATUS

RRSE RATING: Medium Risk

CONTAMINANTS OF CONCERN:

POL, PNA, other

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

IRA, RD

FUTURE IRP PHASE:

RA (1383 #RIA093-015)



PROPOSED PLAN

The future phase will be RA and possibly LTM.

CONSTRAINED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
RI/FS							
IRA	133						
RD	200						
RA(C)		100	100				
RA(O)							
LTM		60	23	23	23	23	345
PROJECTED TOTAL:					\$1,030,000		

**RESPONSE COMPLETE & NFA
ROCK ISLAND ARSENAL
DSERTS SITES**

RIA-002

UST PROPOSED UST 29 - 32

SITE DESCRIPTION

RIA-002 is located near building 222 in the industrial area. Former Building 216 was four concrete USTs (8, 9, 10, 11); during removal 1,1,1-trichloroethane (TCEA) contaminants were discovered. The site was reported as an incident to IEPA and cleaned up under specific clean-up objectives. Monitoring wells were installed and used to initially remediate the area and verify that remediation was complete.

PROPOSED PLAN

Although it is believed that the site requires no further action, additional information may be required if contamination due to leakage is believed to have occurred. If necessary, the information will be collected as a RI and will be used to verify that the site is clean.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

POL, chlorinated solvents

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

RC

RIA-004

ASH PILE

SITE DESCRIPTION

RIA-004 is located west of building 299. The ash is from the main heating plant and contains cinders and ashes from the combustion of coal. The RIA and Quad Cities road crews utilize the ash for road cinders during winter snow and ice conditions. Any runoff from this area flows to a natural limestone lined sump. The ash pile was originally identified based on the potential for heavy metals, however current analyses identify the material as non-hazardous. This site will continue to be used. Future wetlands regulations have a potential to affect this site.

PROPOSED PLAN

Although it is believed that the site requires no further action, additional information may be required dependant upon future wetland regulations

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Ash;, inert material

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

RC

RIA-005

ABOVE GROUND STORAGE TANK AT BLD 222 TEMPORARY

SITE DESCRIPTION

RIA-005 was located south of the east wing of building 220. A temporary above ground storage tank was installed during the removal of USTs 8, 9, 10, 11 and subsequent installation of USTs 29, 30, 31, 32. The tank was in place approximately 6-9 months. There were no known leaks or spills during use of the tank. No contamination occurred.

PROPOSED PLAN

NFA

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

POL

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-006

LANDFILL CONSTRUCTION DEBRIS

SITE DESCRIPTION

RIA-006 is located near building 204. The industrial fill area was used until the mid 1970's for the disposal of concrete, cinders and construction rubble. No contaminants were determined during historical review. Sampling has not been performed. Further action is not believed warranted.

PROPOSED PLAN

NFA

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Inert Material

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-007

LANDFILL CONSTRUCTION DEBRIS

SITE DESCRIPTION

RIA-007 is located near building 204. The industrial fill area was used until the mid 1970's for the disposal of concrete, cinders and construction rubble. No contaminants were determined during historical review. Sampling has not been performed. Further action is not believed warranted.

PROPOSED PLAN

NFA

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Inert Material

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-009

BURIAL SITE NE BLD 342

SITE DESCRIPTION

RIA-009 is located north east of building 342. The site was used for general wastes. Site was closed prior to the 1970's. No known contamination. The area was covered with heavy grasses before converting the site to black topped parking lot.

PROPOSED PLAN

NFA

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Refuse without hazardous waste, unknown

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-010

FORMER SHELLBREAKER AND PRESENT DRMO STORAGE

SITE DESCRIPTION

RIA-010 is located on the south central portion of the island near the current DRMO site. The area was in use before 1951. There was a burning pit (1870-1880) near building 154. It was referred to the shell breaker area/pit, where munitions were destroyed during the Civil War and Spanish-American War. Materials stored in bins, drums, and bulk piles. Currently used for salvage items and material storage. Currently there are no hazardous wastes disposed in this area.

PROPOSED PLAN

NFA

IRP STATUS

RRSE RATING: Low Risk (3A)

CONTAMINANTS OF CONCERN:

Inert Material, scrap metal, unknown, other, explosive chemicals, POL

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-011

CASING BURIAL AREA MUNITIONS BURIAL

SITE DESCRIPTION

RIA-011 is located near the test track/quarry. In 1978, six concrete-filled bomb casings were discovered. The casings/casting were similar to those manufactured for atomic bomb research in the 1940's. An X-ray analysis revealed, nuts, bolts, and concrete. Because the radiation was twice background level these items were shipped to a low level radioactive waste site (less than one millicurie per container) as a safety precaution. A seventh was discovered in 1979 and another in 1992. The radiation discovered in 1979 and 1992 was slightly elevated to the dirt background but not above background for normal concrete. No further action is required.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Inert Material

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-012

HAZARDOUS WASTE STORAGE AREA BLD 242

SITE DESCRIPTION

RIA-012 is located at building 242. This was an active RCRA interim Part A Hazardous Waste Storage Facility. A Part B application was submitted and denied. An appeal process was implemented, however it was withdrawn. The closure requirements were to clean the building according to an approved closure plan written by a certified Professional Engineer. The requirements were met and the building was approved as closed by the IEPA in 1995. Since the closure of the building, approval has been acquired by IEPA in order to utilize the building as a less than 90-day accumulation area. No major leaks or spills have occurred outside of the building. Major contamination is not expected because leaks or spills within the building were cleaned up on discovery. Since this is an active site it is not eligible for ER,A funding at this time.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Inert Material

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

PROPOSED PLAN

This is an active site. No action is planned under the restoration program.

RIA-013A

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 33

SITE DESCRIPTION

RIA-013A was located near building 33, under a canopy and was used for less than 90-day storage. Although no spills or leaks occurred at this site, the site is under RCRA closure action because of a violation (More than one drum of the same waste was being filled at the same time). The site was closed under project (1383 # RIA093-014). The IEPA approved the closure on 2 November 1994 and RIA is considered in compliance. This site is a RCRA site and not eligible for DERA funding.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent, explosive chemicals, heavy metals

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013B

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 64

SITE DESCRIPTION

RIA-013B was located in building 64, the former metal finishing facility, and was used for less than 90-day storage. The site is under RCRA closure action because of a tank usage violation. The project to cleanup the facility is proceeding according to the closure plan (1383 # RIA0091004 & RIA0091023). This site is a RCRA site and not eligible for DERA funding at this time.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Inert Material

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013C

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 65

SITE DESCRIPTION

RIA-013C was located in building 65, the former wastewater industrial pretreatment facility. The site was previously used for less than 90-day storage. No spills or leaks have occurred at this site. The hazardous waste site requires no further action, however there will be voluntary cleanup of this facility before reuse or demolition.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Industrial sludge

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013D

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 69

SITE DESCRIPTION

RIA-013D was located in building 69, the former phosphating area, and was used for less than 90-day storage. No spills or leaks occurred at this site. The hazardous waste site requires no further action, however there will be voluntary verification of cleanup of this facility before reuse or demolition.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Explosive Chemicals, heavy metals

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013E

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 106

SITE DESCRIPTION

RIA-013E was located in building 106, the former foundry, and was used for less than 90-day storage. No spills or leaks occurred at this site. The hazardous waste site requires no further action. The building is used for industrial purposes, however there will be voluntary verification of cleanup of this facility before non-industrial use.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Scrap metal, heavy metals

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013F

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 108

SITE DESCRIPTION

RIA-013F was located in building 108, Print Shop and was used for less than 90-day storage. The processes that generated hazardous waste was discontinued in FY 93. No spills or leaks occurred at this site and the site was closed. The hazardous waste site requires no further action. The site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent, chlorinated solvents

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013G

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 112

SITE DESCRIPTION

RIA-013G is an active site located in building 112, Headquarters MOP Shop and is used for less than 90-day storage. No spills or leaks have occurred at this site. This site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent, oil with chlorinated solvents

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013H

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 131

SITE DESCRIPTION

RIA-013H was located in building 131, quality assurance, and was used for less than 90-day storage. No spills or leaks have occurred at this site. The hazardous waste site requires no further action and the site was closed. The site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013I

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 133

SITE DESCRIPTION

RIA-013I was located in building 133 and was used for less than 90-day storage. No spills or leaks have occurred at this site and the site was closed. The hazardous waste site requires no further action. The building has been demolished.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013K

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 139

SITE DESCRIPTION

RIA-013K is an active site located in building 139, paint shop, and is used for less than 90-day storage. No spills or leaks have occurred at this site. The site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent, Paint

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013L

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 208

SITE DESCRIPTION

RIA-013L is an active site located in building 208, paint shop, and is used for less than 90-day storage. No spills or leaks have occurred at this site. The site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent, Paint

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013M

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 220

SITE DESCRIPTION

RIA-013M was located in building 220 and was used for spill kits and for less than 90-day storage. No spills or leaks have occurred at this site. The hazardous waste site requires no further action. The site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013N

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 220

SITE DESCRIPTION

RIA-013N (Oil) is an active site located in building 220-Oil Room and is used for less than 90-day storage. No spills or leaks have occurred at this site. The hazardous waste site requires no further action. The site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent, POL

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-0130

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 222

SITE DESCRIPTION

RIA-0130 is an active site located in building 222, heat treat/forge shop, and is used for less than 90-day storage. No spills or leaks have occurred at this site. The site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Solvent, Scrap metal

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013P

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 231

SITE DESCRIPTION

RIA-013P was located in building 231, maintenance, and was used for less than 90-day storage. No spills or leaks have occurred at this site. The hazardous waste site requires no further action. The site is not ER,A eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Unknown, other

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013R

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 250

SITE DESCRIPTION

RIA-013R was located in building 250, machine repair, and was used for less than 90-day storage. No spills or leaks have occurred at this site and the site was closed. The hazardous waste site requires no further action. The site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

POL, PCB, solvent

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013S

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 299

SITE DESCRIPTION

RIA-013S was located in building 299, care and preservation, and was used for less than 90-day storage. No spills or leaks have occurred at this site. The site was closed in conjunction with the violation that required the formal closure of the building 33 site. The hazardous waste site requires no further action. The site is not DERA eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Paint, Solvent

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

RIA-013T

HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLDG 337

SITE DESCRIPTION

RIA-013T was located in building 337, Quality Assurance Storage, and was used for less than 90-day storage. No spills or leaks occurred at this site. The site is not ER,A eligible.

PROPOSED PLAN

This site is inactive. No further response is planned under the restoration program.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

Acid, solvent, chlorinated solvent

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

NFA

SCHEDULE

PAST MILESTONES

IRP Phase

Completion Date

IRP PA Initiation	Dec 79
PA/SI, Installation	Jul 88
RI/FS Phase I (RIA-001)	Jun 97
Groundwater Classification	Nov 97
RI/FS Phase II (RIA-001)	Sept 99
Draft FS (RIA-001)	Feb 00
2nd Draft FS (RIA-001)	Mar 00
RI/BRA (RIA-008)	Jul 00

PROJECTED MILESTONES

IRP Phase

Completion Date

IRA (RIA-001)	Jun 01
RD (RIA-001)	Jun 01
RI/FS (RIA-014)	Jun 01
Final FS (RIA-001)	Nov 01
RA (RIA-001)	Jun 02
RD (RIA-014)	Jun 02
RA (RIA-014)	Aug 02
LTM (RIA-014)	Aug 02
LTM/LTO, PP (RIA-001)	Sept 30

Projected completion date of IRP including LTO/LTM: Sep 2030

SCHEDULE

NO FURTHER ACTION SITES

The following sites currently require no further action under the ER,A program:

RIA-002	PROPOSED UST 29 - 32
RIA-004	ASH PILE
RIA-005	AGST AT BLD 222 TEMP
RIA-006	LANDFILL CONSTRUCTION DEBRIS
RIA-007	LANDFILL CONSTRUCTION DEBRIS
RIA-009	BURIAL SITE NE BLD 342
RIA-010	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 64
RIA-011	CASING BURIAL AREA/ MUNITIONS BURIAL
RIA-012	HAZARDOUS WASTE STORAGE AREA BLD 242
RIA-013A	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 33
RIA-013B	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 64
RIA-013C	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 65
RIA-013D	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 69
RIA-013E	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 106
RIA-013F	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 108
RIA-013G	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 112
RIA-013H	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 131
RIA-013I	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 133
RIA-013K	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 139
RIA-013L	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 208
RIA-013M	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 220
RIA-013N	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 220
RIA-013O	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 222
RIA-013P	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 231
RIA-013R	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 250
RIA-013S	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 299
RIA-013T	HAZARDOUS WASTE SATELLITE/ACCUMULATION AREA BLD 337

Rock Island Arsenal IRP Schedule

(Based on current funding constraints)

Current Phase

Future Phase

DSERTS #	PHASE	FY01	FY02	FY03	FY04	FY05	FY06	FY07+
RIA-001	RI/FS							
	IRA							
	RD							
	RA(C)							
	RA(O)							
	LTM							
RIA-008	IRA							
	RD							
	RA(C)							
RIA-014	IRA							
	RD							
	RA(C)							
	LTM							

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

Site, 4. Installation Phase Summary Report

1/4/01

Installation: **ROCK ISLAND ARSENAL**

Programs: BRAC I, BRAC II, BRAC III, BRAC IV, IRP

Subprograms: Compliance, Restoration, UXO

Installation count for Programs: 1

NPL Options: Delisted, No, Proposed, Yes

Installations count for Programs and NPL: 1

Site count for Programs and NPL: 29

Phase / Status / Sites

PA				SI			
C	U	F	RC	C	U	F	RC
29	0	0	0	29	0	0	24
RI / FS				RD			
C	U	F	RC	C	U	F	
3	1	0	2	0	0	2	
RA(C)				RA(O)			
C	U	F	RC	C	U	F	RC
1	0	2	1	0	0	1	0
				LTM			
				C	U	F	N
				0	0	1	28

Remedy / Status / Sites (Actions)

IRA

C	U	F
1 (1)	0 (0)	2 (2)

FRA

C	U	F
1 (1)	0 (0)	2 (2)

RIP Total: 0

RC Total: 27

Reporting Period End Date: 09/30/2000

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

Site, 9. RISK INSTALLATION ACTION PLAN REPORT

01/04/2001

Installation: ROCK ISLAND ARSENAL
Major Command: AMC

SubCommand: OSC
Program Options: IRP, BRAC I, BRAC II, BRAC III, BRAC IV

Subprogram Options: Compliance, Restoration, UXO

Site	RRSE	Media Evaluated	Phase (s) Completed	Phase (s) Underway	Phase (s) Future	#IRA Completed	#IRA Underway	#IRA Future	LTM Status	RIP Date	RC Date
RIA-001	1B	GW SH SL WH	PA SI	RI	RAC RAO RD			1	N	200210	201509
RIA-002	NE		PA RAC SI						N		198809
RIA-004	NE		PA SI						N		198805
RIA-005	NE		PA SI						N		198805
RIA-006	NE		PA SI						N		198805
RIA-008	3B	GW	PA RI SI						N		200008
RIA-009	NE		PA SI						N		198805
RIA-010	NE		PA SI						N		198805
RIA-011	NE		PA SI						N		198805
RIA-012	NE		PA SI						N		198805
RIA-013A	NE		PA RI SI						N		199407

Site	RRSE	Media Evaluated	Phase (s) Completed	Phase (s) Underway	Phase (s) Future	#IRA Completed	#IRA Underway	#IRA Future	LTM Status	RIP Date	RC Date
RIA-013B	NE		PA SI						N		198805
RIA-013C	NE		PA SI						N		198805
RIA-013D	NE		PA SI						N		198805
RIA-013E	NE		PA SI						N		198805
RIA-013F	NE		PA SI						N		198805
RIA-013G	NE		PA SI						N		198805
RIA-013H	NE		PA SI						N		198805
RIA-013I	NE		PA SI						N		198805
RIA-013K	NE		PA SI						N		198805
RIA-013L	NE		PA SI						N		198805
RIA-013M	NE		PA SI						N		198805
RIA-013N	NE		PA SI						N		198805
RIA-013O	NE		PA SI						N		198805
RIA-013P	NE		PA SI						N		198805
RIA-013R	NE		PA SI						N		198805
RIA-013S	NE		PA SI						N		198805
RIA-013T	NE		PA SI						N		198805
RIA-014	3B	GW	PA RI SI		RAC RD	1		1	F		200308

RRSE - Relative Risk Site Evaluation; Risk Category - 1=High, 2=Medium, 3=Low;

Legal Agreement - A = with agreement, B = without agreement; C = Complete, U = Underway, F = Future, N = Not Applicable

Reporting Period End Date: 09/30/2000

REM/IRA/RA ASSESSMENT

Phase I investigated 29 sites, RIA-001 through RIA-014.

No further remedial action is planned at 26 sites. Three sites require additional investigation. One of the sites, RIA-001 is under going FS subject to funding and will require remedial action as an accelerated action. Site RIA-008 will undergo a RI/BRA. RIA-014 will undergo a RI/FS.

PAST REM/IRA/RA

- * RIA-002 Four USTs were removed, soil in the immediate area contaminated with TCEA was removed, Sep 88. (Removal was conducted under non-DEFA funds.)
- * RIA-014, during removal of a UST contaminated soil was removed from the immediate area of the UST Jun 92. (Removal was conducted under non-DEFA funds.)

CURRENT REM/IRA/RA

- * RIA-001, a removal action, if necessary, is scheduled when the investigation information warrants action.
- * RIA-014, an additional removal action, if necessary, is scheduled when the investigation information warrants action.

FUTURE REM/IRA/RA

- * IRA for RIA-001
- * RA for RIA-001
- * IRA for RIA-014

PRIOR YEAR FUNDING

FY89

DERA Funding Off Site, NON IRP
PRP Consent Agreement (RI0089S001) \$ 32 K

FY92

DERA Funding On Site
UST Removal Bldg 254 site 014(RI0091001) \$ 72K

FY94

Intial RI Landfill site 001 \$ 555 K
(RIA094-021 & RIA094-022)

FY95

RI/FS Landfill site 001 \$ 782 K
(RIA094-021 & RIA094-022)

FY96

RI/FS Landfill site 001 \$ 288 K
(RIA094-021 & RIA094-022)

FY97

RI/FS Landfill PYSA site 001 (RIA095-002) \$ 79 K
RI/FS Landfill site 001 (RIA095-022) \$1,449K

FY98

RI/FS Old Quarry site 008 (RIA097-001) \$ 157 K

FY99

RI/FS Landfill PYSA site 001(RIA095-002) \$ 77 K

FY00

RI/FS Landfill PYSA site 001(RIA095-002) \$2,442 K

TOTAL PRIOR YEAR ER,A FUNDS \$5,933 K

FUTURE FUNDING

FY 01:	RI/FS Landfill PYSA site 001(RIA095-002)	\$4,311 K
	RI/FS UST Removal site 014 (RIA-0091991)	\$333 K
	Sub Total	\$4,644 K
FY 02:	RI/FS Landfill	\$193 K
	RD Landfill	\$150 K
	RA(C) Landfill site 001(RIA095-002)	\$3,310 K
	LTM Landfill site 001(RIA095-002)	\$153 K
	RA(C) UST(34) site 014(RIA093-015)	\$100 K
	RA(O) Landfill	\$ 60 K
	Sub Total	\$3,966 K
FY 03:	RD Landfill	\$135 K
	RA(O) Landfill site 001(RIA095-002)	\$100 K
	LTM Landfill site 001(RIA095-002)	\$153 K
	RAC UST 34	\$100 K
	LTM UST 34	\$ 23 K
	Sub Total	\$ 511 K
FY 04:	RA(O) Landfill site 001(RIA095-002)	\$100 K
	LTM Landfill site 001(RIA095-002)	\$153 K
	LTM UST 34	\$ 23 K
	Sub Total	\$276 K
FY 05 :	RA(O) Landfill site 001(RIA095-002)	\$100 K
	LTM Landfill site 001(RIA095-002)	\$153 K
	LTM UST 34	\$ 23 K
	Sub Total	\$276 K

FUTURE FUNDING

FY 06 :	LTM Landfill site 001(RIA095-002)	\$153 K
	RA(O) Landfill site 001(RIA095-002)	\$100 K
	LTM UST 34	\$ 23 K
	Sub Total	\$276 K
FY 07+:	RA(O) Landfill site 001(RIA095-002)	\$1000 K
	LTM Landfill site 001(RIA095-002)	\$1530 K
	LTM UST 34	\$230
	Sub Total	\$2,760 K
	TOTAL FUTURE FUNDING	\$8,065 K
	(not including FY01)	

ROCK ISLAND ARSENAL COST TO COMPLETE

DSERTS #	SITE TITLE	PHASE	FY01	FY02	FY03	FY04	FY05	FY06	FY07+	PHASE TOTALS	SITE TOTAL	DESCRIPTION OF WORK	
RIA-001	Old Landfill	RI/FS	2700	193						2893		Assumes awarding scope developed in FY00 in the 1st Q of FY01. Contract: \$1.6M Corps S&A	
		IRA	1011							1011		Removal of LNAPL	
		RD	500	150	135						785		Award design contract in late 3rd Q FY01. Estimate \$450K contract and \$50K S&A
		RA(C)		3310							3310		Removal of Soil
		RA(O)			100	100	100	100	900		1300		Capping of Landfill
		LTM	100	153	153	153	153	153	1377		2242	11541	Expect 30 Years
RIA-008	Quarry	RI/FS								0			
		IRA								0			
		RD								0			
		RA(C)								0	0		
RIA-014	UST 34	RI/FS								0			
		IRA	133							133		Groundwater Monitoring Wells	
		RD	200							200		Extraction Collection System	
		RA(C)		100	100					200			
			60	23	23	23	23	207	359	892			
RAB									0	0			
FISCAL YEAR TOTALS IN THOUSANDS OF DOLLARS			4,644.0	3,966.0	511.0	276.0	276.0	276.0	2,484.0	12,433.0	12,433.0		
FY02	ROCK ISLAND ARSENA	3,644	3,813	253	253	253	253	253	4,183	12,652			
	Difference	-\$1,000	-\$153	-\$258	-\$23	-\$23	-\$23	-\$23	\$1,699	\$219			

COMMUNITY INVOLVEMENT

No attempts have recently been made to form a RAB. A RAB will be formed if necessary, when a remedial decision on the landfill is made during FY01.

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

Installation, 7. RAB REPORT

01/04/2001

Command: AMC

SubCommand: OSC

Installation: ROCK ISLAND ARSENAL

RAB Established Date:

Reason RAB Not Establish:

The community has expressed no sufficient,

RAB Adjourned Date:

Reason RAB Adjourned:

sustained interest in a RAB.

TRC Date:

RAB Community Members:

Total RAB Community Members:

RAB Government Members:

Total RAB Government Members:

RAB Activities:

RAB Advice

TAPP Application Approval Date:

TAPP Project Title:

09/30/2000

TAPP Project Description:

Purchase Order

Award Number

Award Date

Completion Date