

INSTALLATION ACTION PLAN

For

TOOELE ARMY DEPOT



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 Tooele Army Depot (TEAD). 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. Under current project funding, all remedies will be in place at the TEAD by the end of 2007.

CONTRIBUTORS TO THIS YEAR'S IAP

NAME

ORGANIZATION

| | |
|---------------------|--|
| Larry McFarland | TEAD, IRP Manager |
| Helge Gabert | UDEQ/DSHW |
| Ty Howard | UDEQ/ DSHW |
| Rik Ombach | UDEQ/ DERR |
| Jim Kiefer | U.S. EPA, Region 8 |
| Maryellen Mackenzie | Corps of Engineers, Sacramento |
| Brad Wright | HQ, OSC |
| Mary Jean Fischer | IRP Support, Engineering & Environment |

TOOELE ARMY DEPOT IAP FY 2001

PREPARED BY

LARRY MCFARLAND
Remedial Project Manager
Tooele Army Depot

APPROVAL

GARY B. CARNEY
LTC, OD
Commanding

REVIEWED BY

Legal Advisor
Tooele Army Depot

Public Affairs Officer
Tooele Army Depot

OPERATIONS SUPPORT COMMAND

CONCURRENCE

BRAD WRIGHT

MSC Environmental Restoration
Program Manager, OSC

TOM JACKSON

Environmental Counsel, OSC

ARMY MATERIEL COMMAND

APPROVAL

MR. JEWEL SIMMONS
Environmental Restoration Program Manager

INFORMATION SHARING

AMC, as well as MSCs and installations believe that it should make its environmental restoration information available openly. This Installation Action Plan was forwarded to the following people:

RAB Co-chair (document provided to
all RAB members)

State Regulator

EPA Regulator

Installation RPM

ACRONYMS & ABBREVIATIONS

| | |
|---------------|---|
| AED | Ammunition and Equipment Directorate |
| ALF | Abandoned Landfill |
| ADRA | Ammunition Demilitarization and Renovation Area |
| bgs | below ground surface |
| BRAC | Base Realignment and Closure Action |
| CAMU | Corrective Action Management Unit |
| CERCLA | Comprehensive Environmental Response Compensation and Liability Act |
| COC | Contaminate of Concern |
| CM | Corrective Measure |
| CMD | Corrective Measure- Design |
| CMi | Corrective Measure Implementation |
| CM(O) | Corrective Measure- Operations |
| CMS | Corrective Measure Study |
| DERA | Defense Environmental Restoration Account |
| DRMO | Defense Reutilization and Marketing Office |
| DSERTS | Defense Site Environmental Restoration Tracking System |
| ER,A | Environmental Restoration, Army (formally called DERA) |
| FFSRA | Federal Facility Site Remediation Agreement |
| FS | Feasibility Study |
| FY | Fiscal Year |
| IRA | Interim Remedial Action |
| IRP | Installation Restoration Program |
| IWL | Industrial Waste Lagoon |
| MCL | Maximum Contaminant Level |
| NE | Not Evaluated |
| NFA | No Further Action |
| NPL | Natioanl Priorities List |
| OB/OD | Open Burning/ Open Detanation |
| POL | Petroleum, Oil & Lubricants |
| PP | Proposed Plan |
| PRG | |
| RA | Remedial Action |
| RA(C) | Remedial Action - Construction |
| RA(O) | Remedial Action - Operation |
| RAB | Restoration Advisory Board |
| RCRA | Resource Conservation and Recovery Act |
| RD | Remedial Design |
| REM | Removal |
| RI | Remedial Investigation |

ACRONYMS & ABBREVIATIONS

| | |
|-----------------|--|
| RIP | Remedy in Place |
| ROD | Record of Decision |
| RRSE | Relative Risk Site Evaluation |
| SI | Site Inspection |
| SVOC | Semi-Volatile Organic Compounds |
| TCE | Trichloroethylene |
| TPH | Total Petroleum Hydrocarbons |
| UDEQ | Utah Department of Environmental Quality |
| USACHPPM | United States Army Center for Health Promotion and Preventive Medicine |
| 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) |
| UXO | Unexploded Ordnance |
| VOC | Volatile Organic Compounds |

SUMMARY

STATUS: NPL (score = 53.95) with off-post groundwater contamination in October 1990. IRP being conducted in accordance with a FFA and RCRA Corrective Action Permit.

NUMBER OF DSERTS SITES: 64 DSERTS sites
 27 Active ER,A Eligible Sites
 6 Response Complete Sites
 31 BRAC Sites

DIFFERENT DSERTS SITE TYPES:

| | | | |
|--------------------------|---|---------------------------------|----|
| Burn Area | 1 | Contaminated Buildings | 1 |
| Contaminated Soil Piles | 2 | Contaminated Groundwater | 1 |
| Surface Disposal Area | 4 | Chemical Disposal | 1 |
| Drainage Ditch | 7 | Disposal Pit/Dry Well | 3 |
| Firing Range | 2 | Industrial Discharge | 1 |
| Incinerator | 4 | Landfill | 1 |
| Pesticide Shop | 1 | Storage Area | 12 |
| Surface Impound./Lagoon | 8 | Soil Contam. after Tank Removal | 1 |
| Small Arms Range | 1 | Spill Site Area | 3 |
| Aboveground Storage Tank | 2 | Underground Storage Tank | 1 |
| Waste Lines | 2 | Waste Treatment Plant | 2 |
| EOD Area | 1 | Unexploded Munitions/Ordnance | 2 |

CONTAMINANTS OF CONCERN: VOC's, Explosives, Metals, PCBs and Petroleum Constituents

MEDIA OF CONCERN: Groundwater and Soil

COMPLETED REM/IRA/RA:

| | |
|---|---|
| REM-Soil Removal (1976) (Non-DEIRA Funds) | IRA-Washdown Industrial Waste Lagoon (1996) |
| REM-Soil Removal (1980) (Non-DEIRA Funds) | \$86,000 |
| IRA-Capping (1984) (Non-DEIRA Funds) | IRA-Sump Removal, Building 507 Battery Pit (1996) |
| IRA-Capping (1989) \$4,200,000 | \$50,000 |
| REM-Tank Removal (1991) (Non-DEIRA Funds) | IRA-Compressor Condensate, Buildings 619 & 613 (1996) (BRAC Funds) |
| REM-Tire Removal (1993) \$160,000 | IRA-Battery Shop, Building 618 (1996) (BRAC Funds) |
| REM-Fence Installation (1994) \$4,000 | REM-Underground Storage Tanks, Building 629, 691, and 637 (1997) \$1500K (BRAC) |
| IRA-UXO Clearance (1994) \$1,298,000 | IRA- Soil Removal, SWMU's 7 and 22 (1997-98) |
| REM-Fence Installation (1995) \$3,800 | \$200,000 |
| REM-Fence Installation (1995) \$3,200 | |
| IRA-Tank Removal TNT Washout Facility (1996) \$265,330 | |
| IRA- Building 679 Sump Removal (2000) BRAC funds \$12,000 | |

CURRENT IRP PHASES: RD at 3 Sites RA at 11 Sites RAO at 12 Sites LTM at 2 Sites

PROJECTED IRP PHASES: RA at 2 Sites LTM/RA(O) at 25 Sites

FUNDING & DURATION:

| | |
|--------------------------|------------------|
| Prior Year through 2000: | \$ 74,211,00K |
| FY 2001: | \$ 8,681,000 K |
| Future Requirements | \$ 45,503,000K |
| Total: | \$ 128,395,000 K |

YEAR OF IRP INCEPTION: 1979
YEAR OF IRP COMPLETION (excluding LTM and RAO): 2007

INSTALLATION INFORMATION

LOCALE

TEAD is located approximately 35 miles southwest of Salt Lake City, in Tooele County, Utah. The installation covers an area of 23,015 acres and is located off of Utah Highway 36, just west of the City of Tooele. The working population is approximately 600 personnel. The City of Grantsville (population 6,000) is situated just beyond the northwest boundary and the City of Tooele (population 20,000) is located immediately northeast of TEAD.

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

INSTALLATION: Tooele Army Depot, Environmental Office

INSTALLATION RESTORATION PROGRAM (IRP) EXECUTING AGENCY

- U.S. Army Corps of Engineers, Sacramento District, CA
- U.S. Army Industrial Operations Command; Industrial Base Management Center

REGULATOR PARTICIPATION

FEDERAL: U.S. Environmental Protection Agency, Region VIII, Federal Facilities Program, Office of Ecosystem Protection and Remediation

STATE: State of Utah, Department of Environmental Quality (UDEQ), Division of Solid and Hazardous Waste and Division of Environmental Response and Remediation

REGULATORY STATUS

- NPL Installation, Oct 90
- Technical Review Committee, Feb 88
- Corrective Action Permit, Jan 91
- Federal Facility Agreement, Sep 91
- Restoration Advisory Board formed in 1994

MAJOR CHANGES TO ACTION PLAN FROM PREVIOUS YEAR (FY 00)

- RCRA Corrective Action Permit is being re-issued in FY2001.
- ROD for OU 4 and 8 is being staffed for signature in 1st Qtr FY2001.
- CMS and DD for Group B sites has been approved by regulators. Public comment and DD staffing for signature planned for 1st Qtr FY2001.
- First Five Year Review under FFA to be completed in FY2001.

INSTALLATION DESCRIPTION

Tooele Army Depot (TEAD) is an active U.S. Army Operations Support Command facility. TEAD's mission is to provide for the receipt, storage, issue, maintenance, and demilitarization of conventional ammunition. TEAD is one of the major ammunition storage facilities in the United States and occupies 23,015 acres. TEAD's past maintenance missions have included the repair of tactical wheeled vehicles and power generation equipment. Along with these missions, secondary components of these items have been rebuilt, including engine and power trains. In 1993, TEAD's maintenance mission was placed on the base realignment and closure (BRAC) list and the realignment of the maintenance mission was completed in September 1995. The excess BRAC property (1717 acres and over 200 buildings) was transferred to the Tooele City Redevelopment Agency in December 1998 under the Section 334 Early Transfer Authority.

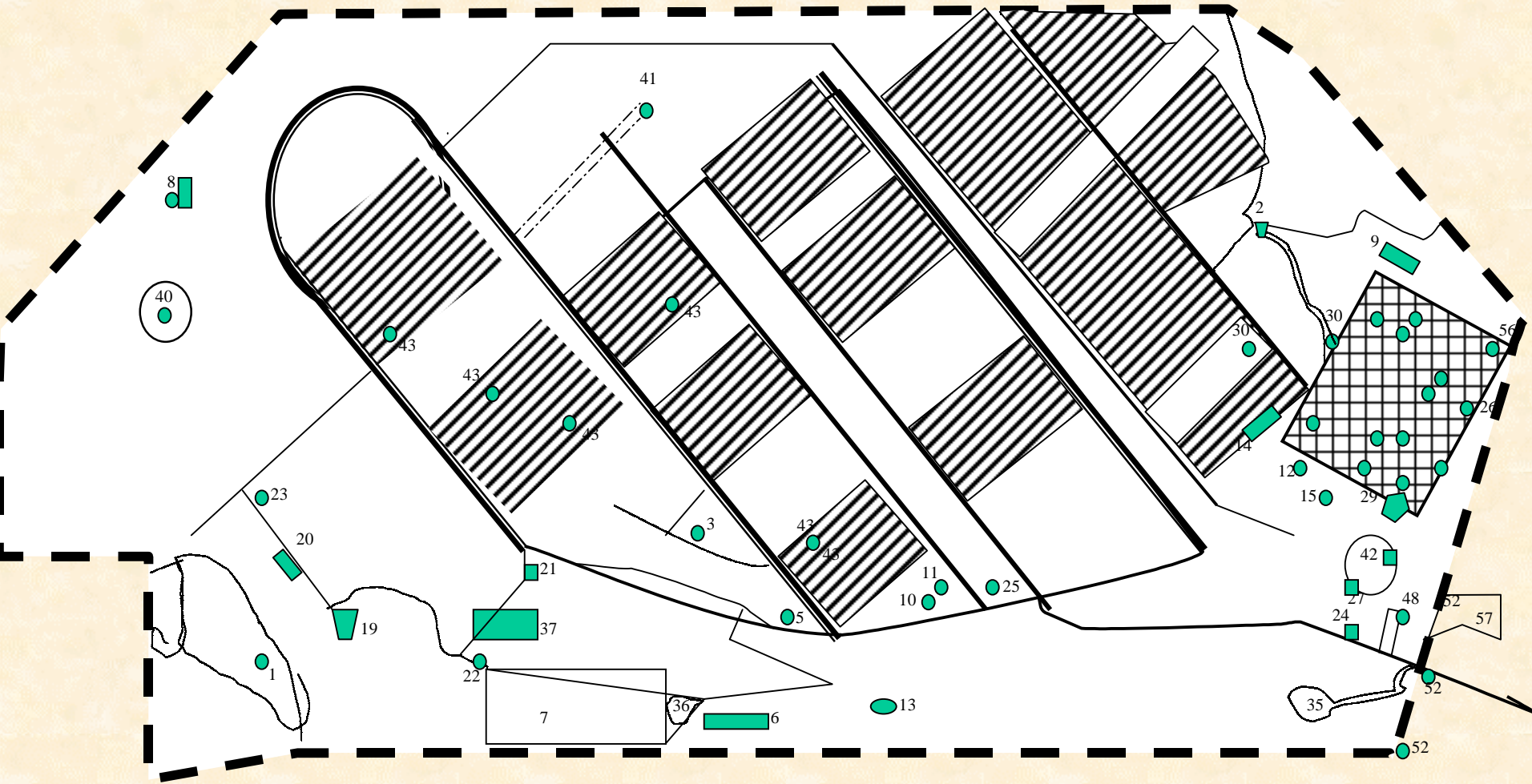
TEAD was established on 7 April 1942 as the Tooele Ordnance Depot. Construction of the facilities, including igloos, magazines, administration buildings, military and civilian housing, roads, hardstands for vehicle storage, and other allied appurtenances, was completed in January 1943. More than 1,625,000 tons of material were shipped and received by TEAD during World War II.

The installation was designated a sub-depot of the Ogden Arsenal in March 1947. In November 1949, TEAD was again redesignated as a full depot and the Ogden Arsenal was designated as a sub-depot under TEAD. In 1955, the Ogden facility was discontinued and its mission transferred to Tooele. On 30 March 1961, the guided missile rebuild, tires and tubes rebuild and calibration of test equipment missions from Benicia Arsenal and Mt. Ranier Ordnance Depot were transferred to TEAD. In June 1970, the maintenance mission responsibilities for topographic equipment, troop support items, construction equipment, power generators and serviceable assets were transferred from Granite City Army Depot. In the mid-1970's, the following four depot activities were assigned to TEAD for administration: Umatilla, Navajo, Fort Wingate and Pueblo.

In 1993, TEAD's maintenance and supply functions were identified for transfer to other installations by the Base Realignment and Closure (BRAC) Commission. With two of the remaining missions being ammunition logistics and the design/fabrication of ammunition equipment, TEAD was designated as a Tier 1 ammunition storage facility in 1995. This made it the primary depot for ammunition operations in the western United States.

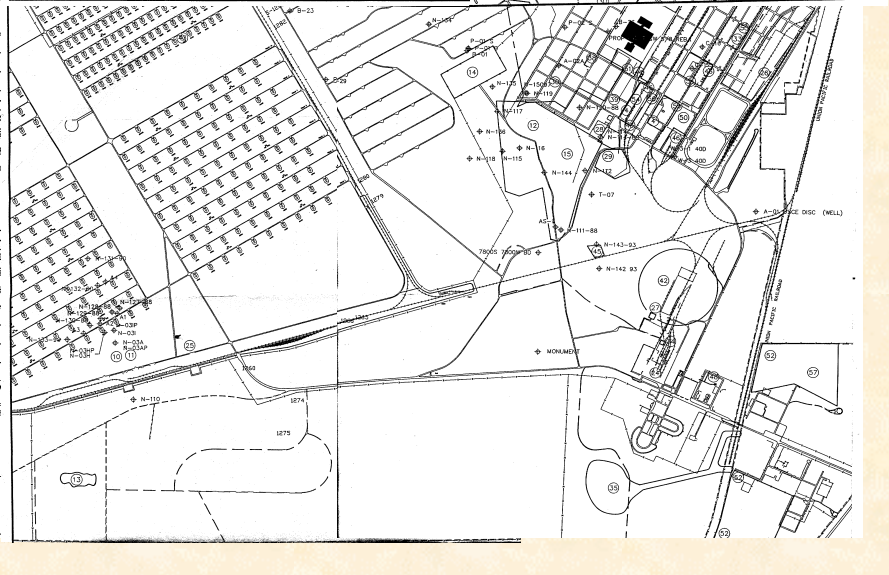
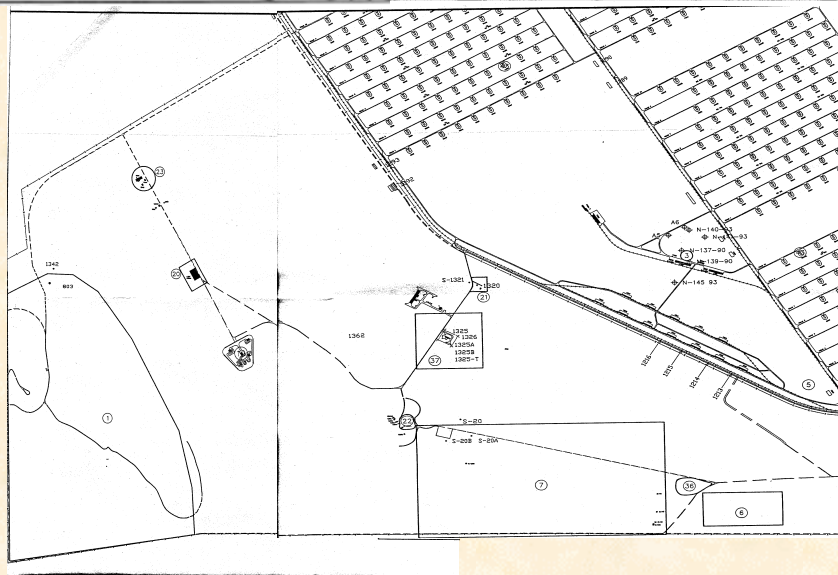
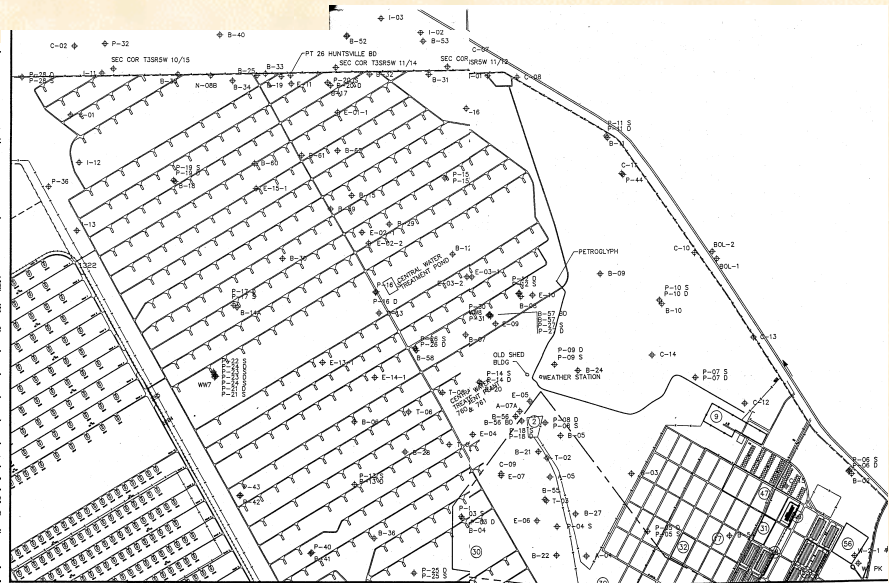
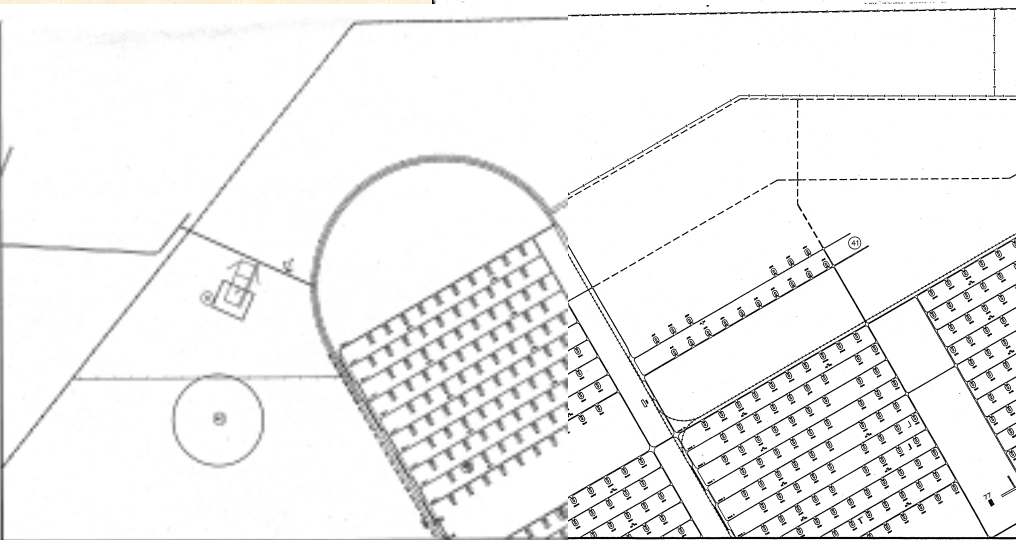
The Army is investigating areas of the installation potentially contaminated by these previous activities by implementing its environmental response authority under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Superfund Amendments and Reauthorization Act (SARA) and the Resource Conservation and Recovery Act (RCRA).

A Federal Facility Agreement (FFA) between the Utah Department of Environmental Quality (UDEQ), U.S. Environmental Protection Agency (EPA) Region VIII and the Army was signed in September 1991. Seventeen of the waste sites at TEAD were designated as CERCLA sites in this Agreement. In January 1991, TEAD was issued a RCRA Post Closure and Corrective Action Permit. This Permit basically serves the same purpose as the FFA. The Corrective Action portion of the Permit addresses 9 known releases Solid Waste Management Units (SWMU's) and 31 suspected releases SWMU's. Thus, 17 sites are being handled under CERCLA/SARA with the EPA as the lead regulatory agency and 40 are being addressed under RCRA with the State of Utah as the lead agency.



TOOELE ARMY DEPOT
DSERTS SITES





SWMU/DSERTS/OU CONVERSION

| DSERTS # | SWMU# | Group | Regulation | Program | Title | RC |
|----------|---------|----------------|------------|---------|-----------------------------------|----|
| TEAD-01 | 1 | Group A | RCRA | ER,A | OB/OD Area | |
| TEAD-05 | 6 | OU 8 | CERCLA | ER,A | Old Burn Area | |
| TEAD-06 | 13 | OU 8 | CERCLA | ER,A | Tire Disposal Site | |
| TEAD-09 | 12 & 15 | Known Releases | RCRA | ER,A | North Area Sanitary Landfill | |
| TEAD-10 | 5 | OU 7 | CERCLA | ER,A | PCB Spill Site (Pole 184) | X |
| TEAD-11 | 3 | Known Releases | RCRA | ER,A | X-Ray Lagoon (Bldg L-23) | |
| TEAD-12 | 23 | OU 9 | CERCLA | ER,A | Bomb & Shell Recond Bldg | |
| TEAD-13 | 2 | Known Releases | RCRA | ER,A | IWL & Ditches | |
| TEAD-14 | 24 | Known Releases | RCRA | ER,A | Battery Pit | |
| TEAD-15 | 7 | OU 9 | CERCLA | ER,A | Chemical Range | |
| TEAD-16 | 8 | OU 8 | CERCLA | ER,A | Firing Range | |
| TEAD-18 | 19 | Group B | RCRA | ER,A | AED Demil Facility (Bldg 1370-80) | |
| TEAD-21 | 27 | Group A | RCRA | ER,A | RCRA Container Storage | X |
| TEAD-24A | 30 | Known Releases | RCRA | ER,A | Old IWL (Active Parcel) | |
| TEAD-27 | 35 | OU 4 | CERCLA | ER,A | Wastewater Spreading Area | |
| TEAD-28 | 36 | OU 8 | CERCLA | ER,A | Old Burn Staging Area | |
| TEAD-29 | 37 | Group A | RCRA | ER,A | Cont Waste Proc (Bldg 1325) | |
| TEAD-31 | 11 | Known Releases | RCRA | ER,A | Laundry Pond | |
| TEAD-33 | 16 | None | None | ER,A | Septic Tanks | X |
| TEAD-34 | 22 | OU 8 | CERCLA | ER,A | Bldg 1303 Washout Pond | |
| TEAD-35 | 20 | Group A | RCRA | ER,A | Deact Furnace (Bldg 1351) | |
| TEAD-36 | 40 | OU 9 | CERCLA | ER,A | AED Test Range | |
| TEAD-37 | 21 | Group A | RCRA | ER,A | Deact Furnace (Bldg 1320) | |
| TEAD-38 | 41 | OU 10 | CERCLA | ER,A | Box Elder Wash Drum Site | X |
| TEAD-50 | 25 | Known Releases | RCRA | ER,A | Battery Recharge Ops (Bldg 1252) | |
| TEAD-54 | 34 | Group A | RCRA | ER,A | Pesticide Mixing (Bldg 532) | |
| TEAD-58 | 42 | Group A | RCRA | ER,A | Bldg 539 Bomb Washout | |
| TEAD-67 | 43 | None | RCRA | ER,A | Cont Storage Areas for P999 | X |
| TEAD-70A | 46 | Group B | RCRA | ER,A | Used Oil Dumpsters | |
| TEAD-80 | 14 | Group B | RCRA | ER,A | Sewage Lagoons | X |
| TEAD-81 | 10 | Known Releases | RCRA | ER,A | TNT Washout Ponds | |
| TEAD-83 | 45 | Group A | RCRA | ER,A | Stormwater Discharge | |
| TEAD-84 | 48 | Group A | RCRA | ER,A | Old Dispensary | |

SWMU/DSERTS/OU CONVERSION

| DSERTS # | SWMU# | Group | Regulation | Program | Title | RC |
|----------|-------|----------------|-------------|---------|----------------------------------|----|
| TEAD-03 | 31 | OU 4 | CERCLA | BRAC | Transformer Storage Site | |
| TEAD-04 | 4 | Group B | RCRA | BRAC | Sandblast Area | |
| TEAD-07 | 17 | OU 5 | CERCLA | BRAC | Transformer Storage | X |
| TEAD-08 | 18 | OU 6 | CERCLA | BRAC | RAD Storage (Bldg S-659) | X |
| TEAD-101 | 58 | None | RCRA | BRAC | Indust Area Groundwater Sources | |
| TEAD-19 | 9 | OU 6 | CERCLA | BRAC | RAD Waste Storage | X |
| TEAD-20 | 26 | Group B | RCRA | BRAC | DRMO Storage Yard | |
| TEAD-22 | 28 | Group B | RCRA | BRAC | 90 Day Storage Area | X |
| TEAD-23 | 29 | Group B | RCRA | BRAC | Drum Storage Area | |
| TEAD-24 | 30 | Known Releases | RCRA | BRAC | Old IWL (BRAC Parcel) | |
| TEAD-25 | 32 | UO 4 | CERCLA | BRAC | PCB Spill Site | |
| TEAD-26 | 33 | OU 5 | CERCLA | BRAC | PCB Storage (Bldg 659) | X |
| TEAD-30 | 38 | Group B | RCRA | BRAC | IWTP | X |
| TEAD-32 | 39 | None | RCRA | BRAC | Solvent Recov Facility | X |
| TEAD-69 | 47 | Group B | RCRA | BRAC | Boiler Blowdown | X |
| TEAD-70 | 46 | Group B | RCRA | BRAC | Used Oil Dumpsters | |
| TEAD-82 | 44 | None | RCRA | BRAC | TCE Storage Tank | X |
| TEAD-85 | 49 | Group C | RCRA | BRAC | Storm/ Indust Piping System | |
| TEAD-86 | 50 | Group C | RCRA | BRAC | Compressor Condensate | |
| TEAD-87 | 51 | Group C | RCRA | BRAC | Chromic Acid/ Alodine Beds | |
| TEAD-88 | 52 | Group C | RCRA | BRAC | Drain Field/ Disp Trench | |
| TEAD-89 | 53 | Group C | RCRA | BRAC | PCB Storage/ Spill Sites | X |
| TEAD-90 | 54 | Group C | RCRA | BRAC | Sandblast Areas | |
| TEAD-91 | 55 | Group C | RCRA | BRAC | Battery Shop, Bldg 618 | X |
| TEAD-93 | 56 | Group C | RCRA | BRAC | Gravel Pit | |
| TEAD-94 | 57 | Group C | RCRA | BRAC | Skeet Range | |
| TEAD-95 | NA | None | Compliance | BRAC | UST Sites | |
| TEAD-96 | NA | None | Compliance | BRAC | Building 611 Firing Range | X |
| TEAD-97 | NA | None | Compliance | BRAC | Building 659 Transformer Storage | X |
| TEAD-98 | NA | None | CERCLA/RCRA | BRAC | State Services | |
| TEAD-99 | None | None | RCRA | BRAC | Northeast Boundary TCE Plume | |

CONTAMINATION ASSESSMENT

General

Past operations and related disposal practices at TEAD have resulted in the generation of various types of industrial wastes, some of which have resulted in contamination of the environment. Chlorinated solvents, heavy metals (primarily lead), polychlorinated biphenyls, and explosives are the primary contaminants of concern. Significant plumes of solvent-contaminated ground water have been identified, both on and off the installation. Additionally, UXO are present in substantial quantities at some locations, which can complicate both study and cleanup efforts.

Investigations identified trichloroethylene (TCE) and other chlorinated solvents contamination from the Industrial Waste Lagoon in groundwater in the early 1980's, as well as explosive compounds from the TNT Washout Facility in soil and in groundwater. Following the discovery of solvent contamination at the lagoon, the Utah Department of Environmental Quality issued TEAD a formal consent order to investigate and clean up the site. A ground water pump and treat system has been operating at the site since 1993.

The U.S. Environmental Protection Agency placed the Depot on its National Priorities List in October of 1990. Subsequently, a Federal Facilities Agreement regulating general investigation and cleanup terms and conditions, under the Comprehensive Environmental Response, Compensation and Liabilities Act (CERCLA), was signed with federal and state regulatory agencies in September 1991. TEAD was issued a RCRA Corrective Actions permit, addressing similar issues, in January of that year.

The TEAD cleanup program underwent an outside technical review in June of 1998 (primarily focused at Base Realignment and Closure [BRAC] actions). The review team's recommendations included the development of risk-based Alternate Concentration Limits as objectives for the groundwater treatment system, along with a goal-oriented strategy for determining the appropriate point to discontinue use of the systems. Further recommendations dealt with the optimization of the operation of the treatment system, and the potential usefulness of an analysis of the details of the role of metals background concentrations in evaluating site risks.

The TEAD restoration program underwent an Independent Technical Review (ITR) in September 2000. Sites evaluated under this review included SWMU 10, TNT Washout Ponds, SWMUs 12/15, Sanitary Landfill, and Groundwater Investigation efforts associated with SWMUs 2 and 58. Although the report of findings from this review has not been published discussions concerning the appropriateness of proposed remedies at SWMUs 10, and 12/15 were questioned. In addition, concerns were raised concerning the on-going operations of the ground water remediation system, as well as the concepts presented for further delineation and remediation of source areas. Based on the recommendations coming out of the ITR, the focus may change concerning remedies at these sites.

The Depot was placed on the BRAC list in 1993. As a result, of the 67 DSERTS sites at TEAD, 36 are being addressed under the Army's Installation Restoration Program (IRP) for active facilities, and the others are under the BRAC environmental program. Likewise both IRP and BRAC sites are further split between regulation under CERCLA and RCRA, as shown in the Site List.

CONTAMINATION ASSESSMENT

Site Organization and Project Phase Status

The IRP at TEAD (a total of 57 Solid Waste Management Units or SWMUs) is divided into two programs, one operated under CERCLA and the other under RCRA corrective action. The 17 CERCLA SWMUs are listed in the Federal Facilities Agreement, and are divided into seven operable units, numbered 4-10 (numbers 1-3 are used by EPA to track TEADs RCRA Corrective Action sites). All required response actions have been completed at OUs 5,6,7 and 10. A ROD is being staffed for signature addressing OUs 4 and 8. The remaining operable unit, OU 9, contains 3 SWMUs which are currently in the Feasibility Study/Proposed Plan/Record of Decision phase.

There are 40 SWMUs addressed in the Corrective Action Permit. These SWMUs are further divided into two primary categories by the permit - known releases (nine SWMUs), and suspected releases (31 SWMUs).

The RFI for the Known Release SWMUs was approved by the regulators in 1997. Currently, eight of the nine SWMUs are in the CMS phase. The remaining SWMU (TEAD-14) is in the corrective measures implementation (CMI) phase.

Of the 31 suspected release SWMUs, four were approved as requiring no further action after the Phase I RFI. The 27 remaining SWMUs are categorized into four groupings (Groups A, B, C, and TEAD-101) for management and scheduling purposes. There are eight SWMUs in Group A, all in the CMS phase. There are nine in Group B, four of which have been approved for no further action after the Phase II RFI in 1997; the rest are in the CMS/DD phase. The CMS/DD have been approved by the State and will be made available in the first quarter of FY2001 for public review prior to signature. There are also nine SWMUs in Group C, one of which received no further action in 1997. The other eight SWMUs in this group are in the CMS phase. Lastly, TEAD-101, Industrial Area Groundwater Sources is in the Phase I RFI phase.

PREVIOUS STUDIES

| Title | Author | Date |
|--|--|-----------|
| Environmental Assessment of Tooele Army Depot, Report No. 141 | USATHAMA | Dec-79 |
| Installation Environmental Assessment | Inland Pacific Engineering Co. | Jun-82 |
| Investigation at the Open Burning/Open Detonation Areas | AEHA | 1982-1985 |
| Exploratory Environmental Contamination Assessment Report | ERTEC | 1982 |
| Environmental Photographic Interpretation Center Report | USEPA and EPIC | 1982 |
| Analysis of Existing Facilities/Environmental Assessment Report | TEAD Facilities Engineering | May-83 |
| Monitoring Activity and Waste Disposal Review and Evaluation | CH2M Hill | Jan-85 |
| A Study of Environmental Balance | Department of the Army | Mar-85 |
| Performance of Remedial Response Activities at Uncontrolled Hazardous Waste Sites - Final Plan | CDM | Mar-85 |
| Interim Groundwater Quality Assessment Report | Woodward-Clyde | 1985 |
| Analytical/Environmental Assessment Report | TEAD Facilities Engineering | Nov-85 |
| Industrial Wastewater Lagoon and Ditches - Groundwater Quality Assessment Report, Corrective Action Plan, and Record of Decision | James M. Montgomery (JMM) | Jan-86 |
| Engineering Report for Closure of the Industrial Wastewater Lagoon | JMM | Mar-86 |
| Environmental Photographic Interpretation Center Report Addendum | USEPA and EPIC | Jul-86 |
| Draft Interim RCRA Facility Assessment | NUS Corporation | Aug-87 |
| Groundwater Quality Assessment Engineering Report | JMM | May-88 |
| Preliminary Assessment/Site Investigation Report | EA Engineering, Science and Technology | Dec-88 |
| Final Remedial Investigation Report | Roy F. Weston | Dec-90 |
| Groundwater Quality Assessment for Tooele Army Depot Tooele, Utah | ESE | Feb-91 |
| RCRA RFI Phase I Summary Report for Known Release Units | ASI | Nov-91 |
| Final Preliminary Baseline Risk Assessment for Tooele Army Depot - North Area | SEC Donohue | Apr-92 |
| Memorandum of Remedial Action Objectives | RUST Environment and Infrastructure (RUST E&I) | Jun-93 |
| Assembled Alternatives Screening Memorandum | RUST E&I | Mar-93 |
| Phase I RCRA Facility Investigation Report, Suspected Releases SWMUs | Montgomery Watson | Dec-93 |
| Memorandum on Detailed Analysis of Alternatives | RUST E&I | Oct-93 |
| Remedial Investigation Report for Operable Units 4-10 | RUST E&I | Feb-94 |
| Feasibility Study Report for Operable Units 5, 6, 7 and 10 | RUST E&I | Mar-94 |
| Record of Decision for Operable Units 5, 6, 7 and 10 | RUST E&I | Sep-94 |
| Phase II RFI Report for Known Releases SWMUs | RUST E&I | Apr-96 |
| Phase II RFI Report for Group A SWMUs. | Montgomery Watson | Sep-96 |
| Phase 2 RI Report for Operable Units 4, 8 and 9 | RUST E&I | Nov-96 |
| Phase II RFI Report for Group B SWMUs. | SAIC | 1-Jun-96 |
| Remedial Design for Two CERCLA Sites in TEAD-North, Volume 1 & 2 | Jacobs Engineering, Kleinfelder | 1-Nov-95 |

PREVIOUS STUDIES

| Title | Author | Date |
|--|---|----------------|
| Remedial Action Workplan for CERCLA Sites | Davey | 1-Oct-95 |
| Groundwater Monitoring Report | Geomatrix Consultants, Inc. | Spring of 1996 |
| Technical Evaluation of Groundwater Conditions Beneath Northeast Boundary | Kleinfelder | Mar-96 |
| Groundwater Sampling & Analysis | Metcalf & Eddy | Dec-96 |
| Remedial Design Support Field Activities Report for Box Elder Wash Drum Site in TEAD-North | Jacobs Engineering, Kleinfelder | Feb-96 |
| Technical Memorandum, Target Soil Clean-up Goals, Box Elder Drum Wash Site (OU 10/SWMU 41), TEAD-North | Kleinfelder | Jan-96 |
| Site Close Out Report, Box Elder Wash Site (OU 10/SWMU 41), TEAD-North | U.S. Army Corps of Engineers, Sacramento District | May-96 |
| Known Releases CMS Work Plan | Dames and Moore | Jul-96 |
| Group A Suspected Releases CMS Work Plan | Dames and Moore | Jun-96 |
| Remedial Investigation Addendum Report for OUs 4, 8, and 9 | RUST E&I | Feb-97 |
| Feasibility Study Report for OUs 4,8, and 9 | Dames and Moore | Jan-98 |
| Proposed Plan for OUs 4, 8, and 9 | Dames and Moore | Feb-98 |
| Technical Report for Soil Composting Treatability Study, TNT Washout Facility (SWMU 10) | Dames and Moore | Feb-98 |
| Group B Suspected Releases CMS Workplan | Dames and Moore | Apr-98 |
| Group C Suspected Releases CMS Workplan | Dames and Moore | Jul-98 |
| Additional Field Investigation for Known Releases SWMUs | Dames and Moore | Jul-98 |
| Groundwater Treatment Plant Optimization Study | Kleinfelder | Aug-98 |
| Groundwater Treatment System Optimization Study | EPA | Feb-99 |
| Groundwater Flow and Solute Transport Model | USACE | Feb-99 |

OPERABLE UNIT 4 AND 8

TEAD-05, SWMU 6 OLD BURN AREA

SITE DESCRIPTION

Regulation: CERCLA

The Old Burn Area was used for testing of munitions and for burning boxes and wooden crates on the ground surface and in shallow trenches. These activities were discontinued in the 1970's. The trenches still contain metal debris and spent or destroyed munitions. The trenches have been filled, graded and revegetated.

Low levels of metals and explosives were detected in soil samples. Lead was located in a small area near one of the berms and hot spots were detected to 5 ft bgs. 2,4-DNT was located within a manmade drainage ditch that collects runoff from the site. Both were present at concentrations above the industrial worker PRGs. Elevated cancer risks and hazards were identified for the hypothetical future resident and the future construction worker. No significant ecological risks were identified. A ROD was staffed for signature in October 2000.

PROPOSED PLAN

Excavation of lead-contaminated soil (~2800cy) at levels above PRGs, and treatment of the contaminated soil onsite through solidification/stabilization. Solidified/stabilized soil will be deposited in and managed in a CAMU located within the boundaries of SWMU 12/15.

Institutional controls in the form of land use restrictions are included to prevent future residential use. Five-year site reviews will be conducted.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Explosives, Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, RI

CURRENT IRP PHASE:

FS (ROD), RD

FUTURE IRP PHASE:

RA



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | | | | | | | |
| RA(C) | 650 | | | | | | |
| RA(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$653,000

TEAD-06, SWMU 13 TIRE DISPOSAL SITE

SITE DESCRIPTION

Regulation: CERCLA

The Tire Disposal Area is an 11-acre pit located in the southern portion of TEAD. It was used for the disposal of vehicle tires from 1965 to 1993. The tires were removed in 1993.

Chloromethane was the only chemical detected in the surface soil. However it was present at levels below the Depot worker PRG.

A ROD was staffed for signature in October 2000.

IRP STATUS

RRSE RATING: Low Risk (3A)

CONTAMINANTS OF CONCERN:

Chloromethane

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, REM, RI

CURRENT IRP PHASE:

FS (ROD), RA (institutional controls)

FUTURE IRP PHASE:

RA (institutional controls)



PROPOSED PLAN

Institutional controls in the form of land use restrictions will be applied. Five-year site reviews will be required.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | | | | | | | |
| RA(C) | | | | | | | |
| RA(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-16, SWMU 8 FIRING RANGE

SITE DESCRIPTION

Regulation: CERCLA

The Small Arms Firing Range was used weapons training by the National Guard, Army Reserve, Navy and TEAD military personnel. The range contains 20 firing stations, with targets located at 25, 50, 100 and 300 meters. Bermed areas just in front and behind the targets were used to stop the fired rounds.

Several metals were identified in the soil collected from the berms, although lead was the only COC.

Elevated risks and hazards were identified for the hypothetical future resident. The ecological risk identified adverse effects on plants and animals from the lead in the soil. A ROD was staffed for signature in October 2000.

PROPOSED PLAN

Excavation of lead-contaminated soil (2,400cy) at levels above PRGs, and treatment of the contaminated soil onsite through solidification/stabilization. Solidified/stabilized soil will be deposited in and managed in a CAMU located within the boundaries of SWMU 12/15.

Institutional controls in the form of land use restrictions are included to prevent future residential use. Five-year site reviews will be conducted.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Lead

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, RI

CURRENT IRP PHASE:

FS (ROD), RD

FUTURE IRP PHASE:

RA



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|--------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | | | | | | | |
| RA (C) | 550 | | | | | | |
| RA (O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$553,000

TEAD-27, SWMU 35 WASTEWATER SPREADING AREA

SITE DESCRIPTION

Regulation: CERCLA

At the Wastewater Spreading Area, runoff and wastewater from a former housing area, now part of the TEAD horse stable complex, was discharged through two culverts into two unlined ditches. The ditches discharged to a relatively flat spreading area.

Levels of pesticides above industrial worker PRGs were identified as COCs in the soil. These pesticides do not appear to have adversely affected groundwater. The human health Risk Assessment identified no elevated cancer risk or hazards for the Depot worker. Elevated risk has been identified for the possible future resident. There is a potential ecological risk to songbirds due to the consumption of food from this area. A ROD was staffed for signature in October 2000.

PROPOSED PLAN

Excavation of some of the pesticide-contaminated soil and off-post treatment/disposal.

Institutional controls in the form of land use restrictions are included to prevent future residential use. Five-year site reviews will be conducted.

IRP STATUS

RRSE RATING: Medium Risk (2A)

CONTAMINANTS OF CONCERN:

Pesticides

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, RI

CURRENT IRP PHASE:

FS (ROD), RD

FUTURE IRP PHASE:

RA



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | | | | | | | |
| RA(C) | | | | | | | |
| RA(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-28, SWMU 36 OLD BURN STAGING AREA

SITE DESCRIPTION

Regulation: CERCLA

The Old Burn Staging Area is a small pit located immediately north of the Old Burn Area (SWMU 6). The area was used to temporarily store material on its way the the Old Burn Area.

Elevated concentrations of metals were detected in the surface soil. Slightly elevated hazards were identified for the hypothetical future resident. A ROD was staffeed for signature in October 2000.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, RI

CURRENT IRP PHASE:

FS (ROD), RA (institutional controls)

FUTURE IRP PHASE:

RA (institutional controls)



PROPOSED PLAN

Institutional controls in the form of land use restrictions will be applied. Five-year reviews will be required.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | | | | | | | |
| RA(C) | | | | | | | |
| RA(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-34, SWMU 22 BUILDING 1303 WASHOUT POND

SITE DESCRIPTION

Regulation: CERCLA

The Building 1303 Washout Pond is a shallow depression located in the southwestern portion on TEAD. This site received washwater from Bldg 1303, where high-explosive bombs and projectiles were dismantled and shell casings were washed for reuse or disposal. The washwater drained from the building into an unlined ditch and flowed to the ponding area.

Metals and explosives were detected in the soil of the ditch and pond. The explosives 2,4,6-TNT and RDX were located in one hot spot.

Explosive-stained soil from the washout pond was removed in Feb 1998.

A risk assessment conducted after the removal showed a slightly elevated cancer risks and hazards were detected for the hypothetical future resident. A ROD was staffed for signature in October 2000

PROPOSED PLAN

Institutional controls in the form of land use restrictions will be applied. Five-year site reviews will be required.

IRP STATUS

RRSE RATING: Medium Risk (2A)

CONTAMINANTS OF CONCERN:

Explosives, Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, RI, IRA

CURRENT IRP PHASE:

FS (ROD), RA (institutional controls)

FUTURE IRP PHASE:

RA (institutional controls)



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | | | | | | | |
| RA(C) | | | | | | | |
| RA(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

OPERABLE UNIT 9

TEAD-12, SWMU 23 BOMB AND SHELL RECOND BLDG

SITE DESCRIPTION

Regulation: CERCLA

Operations in Building 1345 began in the late 1950's and have consisted of external work on large munitions, primarily sandblasting and painting. Wastewater, which currently is comprised of boiler blowdown water, has flowed from the facility into two ditches.

The Remedial Investigation identified elevated levels of SVOCs and PCBs that pose a risk to future residents as well as on-site workers.

PROPOSED PLAN

A draft Feasibility Study proposing the excavation of contaminated soil for off post treatment or disposal and the application land use restrictions will be submitted for regulatory review. Five-year reviews will be required.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

SVOC's, Metals

MEDIA OF CONCERN:

Soil, Surface Water

COMPLETED IRP PHASE:

PA/SI/RI

CURRENT IRP PHASE:

FS (ROD)

FUTURE IRP PHASE:

RD, RA



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | 15 | | | | | | |
| RA(C) | | 130 | | | | | |
| RA(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$148,000

TEAD-15, SWMU 7 CHEMICAL RANGE

SITE DESCRIPTION

Regulation: CERCLA

The Chemical Range which covers 550 acres, runs east and west along the southern installation boundary. At the eastern point of the firing range is the firing point, with the bullet stop located about 4,860 feet to the west. A building foundation and several debris disposal trenches are all that remain. Chemical and pyrotechnic type munitions, excluding chemical agent fill munitions, were tested and disposed of at this site. Munition testing and disposal included such items as flares, smoke grenades, smoke pots, incendiary devices and riot control gases.

In 1998, debris and explosive residue was removed from one of the trenches which was exposed and had not been covered in the past.

The Remedial Investigation at this site identified elevated metals concentrations in surface soils that pose a risk to future resident and construction workers. A draft Feasibility Study proposing land use controls will be submitted for regulatory review in October 2000.

PROPOSED PLAN

Issues have been raised by the regulators concerning the survey and clearance of UXO which must be resolved before finalizing the proposed remedy. Five-year reviews will be required at this site.

IRP STATUS

RRSE RATING: Medium Risk (2A)

CONTAMINANTS OF CONCERN:

Metals, UXO

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, RI, IRA

CURRENT IRP PHASE:

FS (ROD)

FUTURE IRP PHASE:

RD, RA



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | 1 | | | | | | |
| RA(C) | 4 | | | | | | |
| RA(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$8,000

TEAD-36, SWMU 40 AED TEST RANGE

SITE DESCRIPTION

Regulation: CERCLA

The AED Test Range is located in the north-western portion of TEAD, and has been used for the testing of munitions, bombs and rocket motors. This site consist of several bermed revetments, a drop tower and a deactivation furnace (only the foundation remains). The deactivation furnace was used to test conveyor spacing in relationship to the design of such systems. Fragments of propellant, UXO and spent munitions can be found on the surface through the site.

Contaminants of concern that were identified during the Remedial Investigation consist of metals, RDX and 2,4-dinitrotoluene. These contaminants trigger a risk to the future resident.

PROPOSED PLAN

A draft Feasibility Study proposing the excavation of the metal and explosive contaminated soil and the UXO that are contained within will be submitted for regulatory review. Soil will be disposed of off post and land use restrictions to prevent residential use will be applied. Issues have been raised by the regulators concerning the survey and clearance of UXO which must be resolved before finalizing the proposed remedy. Five-year reviews will be required.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Explosives, Metals, UXO

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, RI

CURRENT IRP PHASE:

FS (ROD)

FUTURE IRP PHASE:

RD, RA



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | 50 | | | | | | |
| RA(C) | | 420 | | | | | |
| RA(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$473,000

GROUP A

TEAD-01, SWMU 1 OB/OD AREA

SITE DESCRIPTION

Regulation: RCRA

This site is composed of four subsites: Open Detonation/ Cluster Bomb Area (Sub-Area 1), Propellant Burn Pad (Sub-Area 1b), Trash Burn Pits (Sub-Area 1c), and Propellant Burn Pans (Sub-Area 1d). Sub-Areas 1 and 1d are RCRA permitted facilities and are still active. Due to their RCRA status, Sub-Areas 1 and 1d will not be ER,A-eligible for remediation.

Sub-Area 1b and 1c are located next to the active OB/OD area (1 & 1d), approximately 2,000 ft east of the Main Demo Area. The Burn Pad consisted of a 300 by 100 ft cleared area where propellants were burned in open trenches and projectiles were flashed. The Trash Burn Pits consists of 45-acres (approximately 20 pits) that was used to burn range and ammo waste. These sub-areas were used from 1959 to 1977.

Widespread, but low level, explosive, metal and UXO contamination was detected during the RFI. Sub-area 1b and 1c pose an unacceptable risk to the future resident. Sub-area 1b pose a low ecological risk.

IRP STATUS

RRSE RATING: Medium Risk (2A)

CONTAMINANTS OF CONCERN:

Explosives, UXO's, Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I & II RFI, REM-Off Post OEW

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI, CM(O)



PROPOSED PLAN

The proposed plan for Sub-area 1b and 1c is to use institutional controls to prevent future land development and to limit access to the area.

Sub-area 1 and 1d will continue to be used by the installation.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-29, SWMU 37 CONTAMINATED WASTE PROCESSOR BLDG 1325

SITE DESCRIPTION

Regulation: RCRA

This site was used for flashing scrap metal and incinerating pentachlorophenol-treated wooden crates, dunnage and fabric contaminated with trace explosives. Use of the site ended in 1985.

Low level contamination was detected during the RFI that posed an unacceptable risk for future residents.

IRP STATUS

RRSE RATING: Low Risk (3A)

CONTAMINANTS OF CONCERN:

SVOCs, Dioxins, Furans

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I & II RFI

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI



PROPOSED PLAN

Land use restrictions will be put in place.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-35, SWMU 20 AED DEACTIVATION FURNACE (BLDG 1351)

SITE DESCRIPTION

Regulation: RCRA

This site is located on an approximately 200 by 225 ft asphalt pad, along the road between the AED Demil Facility and the Bomb Shell Recon Bldg. A small area of the western corner of the pad, which was reportedly once used to store drummed residue, is referred to as the former hazardous waste holding area. Building 1351 has been active since approximately 1970; it includes a deactivation furnace, a flash furnace (installed in 1976) and a large air pollution control system (installed in 1976). Building 1352 is a small storage building.

The contamination resulting from the approximately 6 years of use without the air pollution controls is eligible for ER,A funds. Low levels of several metals were detected in the soils that pose a risk to future resident.

Ash from current use is drummed and disposed of off-site due to the presence of Cd, Cr and Pb.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I & II RFI

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI, CM(O)



PROPOSED PLAN

The asphalt will be extended to cover the contaminated soil and land use controls will be put in place.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| R/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | 12 | | | | | | |
| CM(O) | 1 | | 1 | 1 | 1 | | 7 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$23,000

TEAD-37, SWMU 21 DEACTAVATED FURNACE (BLDG 1320)

SITE DESCRIPTION

Regulation: RCRA

This site occupies 0.7-acres in the southwestern portion of TEAD. The site is an ammo demil production facility (Bldg 1320) that was constructed about 1955 and is currently under a RCRA Part B permit.

Bldg 1320 contains a rotary-kiln deactivation furnace that is used to deactivate small arms ammo, primers and fuses. Air pollution control equipment was installed around 1975 to treat emissions from the furnace.

The contamination resulting from the approximately 20 years of use without the air pollution controls is eligible for ER,A funds. The RFI detected metals, explosives, dioxins and furans that pose an unacceptable risk to the future resident, worker and ecological risk. A small amount of TNT-contaminated soil was removed from the Former Drum Staging Area.

Incinerator residue (ash and metal debris) is collected at the south end of the furnace and loaded into 55-gallon drums for temporary storage. Open staging areas for support equipment and drums are located around the outside of the building. These areas are paved with asphalt or covered with gravelly soil.

PROPOSED PLAN

The asphalt will be extended to cover the contaminated soil and land use controls will be put in place.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Explosives, Metals, Dioxins, Furans

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I & II RFI, REM

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI, CM(O)



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | 25 | | | | | | |
| CM(O) | 1 | | 1 | 1 | 1 | | 7 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$36,000

TEAD-54, SWMU 34 PESTICIDE HANDLING & STORAGE BLD 518

SITE DESCRIPTION

Regulation: RCRA

Building 518 and the bermed concrete pad are located in the southeastern portion of TEAD and has been used since 1942 to store and prepare herbicides and pesticides. Previously, spills from within the building were directed to the floor drain, which connected to the storm drain and ultimately dumped into Stormwater Discharge (TEAD-82, SWMU 45). However, all liquid wastes are now containerized.

Localized areas of elevated metals and pesticides were detected during the RFI. Risk levels were acceptable for all but the future residential scenario.

PROPOSED PLAN

Planned remedies include placement of a soil cover, construction of a fence, and the application of land use restrictions.

IRP STATUS

RRSE RATING: Medium Risk (2A)

CONTAMINANTS OF CONCERN:

Metals, Pesticides

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I & II RFI

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI, CM(O)



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| R/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-58, SWMU 42 BOMB WASHOUT BUILDING

SITE DESCRIPTION

Regulation: RCRA

Building 539 was used from 1942 to the early 1960s to burn small arms projectiles and recover lead. The floors were washed down and the water allowed to discharge through a concrete flume to a culvert, eventually emptying into a ditch (extending approximately 600 ft) on the northwest side of the building, then to an unlined holding pond (50 ft in diameter and 2 ft deep). There were three other furnaces in the area; two in Bldg 520 and one 255 ft to north of the site that were operated at about the same time that may have contributed to the area's contamination.

Very high levels of Pb were found in surficial soils around the building, and in the drainage ditch and pond. The contamination poses an unacceptable risk to the future resident, worker and ecological receptors. TEAD has fenced off the most highly contaminated area to keep current workers from being exposed.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Explosives, Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I & II RFI, IRA

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI



PROPOSED PLAN

Contaminated soil (~2,700 cy) from the ditch, pond, and waste pile areas will be excavated and stabilized. Land use restrictions will be put in place.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | 580 | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$583,000

TEAD-83, SWMU 45 STORM DISCHARGE AREA

SITE DESCRIPTION

Regulation: RCRA

This site consists of a ponded area at the outfall of the TEAD Administration Area. The site covers 2-acres and includes an unlined ponding area, stormwater-discharge pipe, and undefined portions of the wash floodplain between the outfall and the road to the landfill (SWMU 12/15).

Sampling showed volatile and semi-volatile organic contamination. Very low levels of several metals were detected in the sediment during the RFI. This site poses a unacceptable risk to the future resident.

IRP STATUS

RRSE RATING: Low Risk (3A)

CONTAMINANTS OF CONCERN:

Metals, VOCs, SVOCs

MEDIA OF CONCERN:

Sediment, Soil, Surface water

COMPLETED IRP PHASE:

Phase I & II RFI

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI



PROPOSED PLAN

Land use restrictions will be applied to this site.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-84, SWMU 48 OLD DISPENSARY DISCHARGE, BLD 400

SITE DESCRIPTION

Regulation: RCRA

Bldg 400 is located approximately 300 ft northwest of the present TEAD clinic, in the Administration Area. It is a flat, grass-covered area approximately 8.2 acres. This site consists of the former TEAD dispensary (Bldg 400) and nine smaller buildings. The dispensary was constructed in 1945 and originally served as an administration building; it was later used as a hospital. Bldg 400 included operating rooms, sterilization room, X-ray rooms, and a dental office; the development of the X-rays may have generated contaminated waste.

Although plans for Bldg 400 indicate that waste streams from X-ray operations were discharged to the sanitary sewer system, there is a possibility that these and other waste were disposed of into the adjacent stormwater lines. In the mid-1980s these buildings were demolished and the new clinic was built on the same location.

The RFI found low levels of metals, pesticides and SVOCs that pose an unacceptable risk to the future resident.

PROPOSED PLAN

Land use controls will be applied to this site.

IRP STATUS

RRSE RATING: Low Risk (3A)

CONTAMINANTS OF CONCERN:

Pesticides, SVOC's, Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I & II RFI

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| R/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

GROUP B

TEAD-18, SWMU 19

AED DEMILITARIZATION TEST FACILITY (BLDG 1370-1380)

SITE DESCRIPTION

Regulation: RCRA

The AED Demilitarization Test Facility is located southwest of the ammunition storage area in a remote, undeveloped portion of TEAD. The facility was constructed in 1973 and is composed of several small buildings, sheds and a series of protective revetments behind which tests are conducted. Operations conducted at this site include experimental or function testing of new design demilitarization equipment. Live ammunition and propellants are commonly used as part of these test operations.

Contaminants identified during the Phase II RCRA facility investigation that trigger a risk are RDX and bis(2-ethylhexyl)phthalate. Risk triggered by these compounds may adversely affect future residents.

IRP STATUS

RRSE RATING: Low Risk (3A)

CONTAMINANTS OF CONCERN:

Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I RFI/Phase II RFI, CMS

CURRENT IRP PHASE:

CMI

FUTURE IRP PHASE:

RC



PROPOSED PLAN

Land use restrictions will be implemented at this site to prevent future residential development. The CMS and DD for the proposed action have been approved by the regulators. Public comment on the proposed remedy and staffing of the DD for signature is planned.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-70A, SWMU 46 USED OIL DUMPSTERS

SITE DESCRIPTION

Regulation: RCRA

Waste oil, generated from the overhaul of engines and various equipment, was stored in dumpsters outside of 14 buildings, and 2 USTs located north of Building 637. Some of the locations are located within the BRAC parcel. Spillage of the waste oil has occurred. The USTs and dumpsters have been removed.

The RFI results recommend NFA at 12 of the 16 locations. Three of the remaining site are BRAC. The remaining location will have soil (~33cy) removed due to metal and hydrocarbon contamination.

PROPOSED PLAN

Excavation and disposal of contaminated soil is planned. The CMS and DD for the proposed action have been approved by the regulators. Public comment on the proposed remedy and staffing of the DD for signature is planned.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Hydrocarbons, Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I & II RFI, CMS

CURRENT IRP PHASE:

CMD

FUTURE IRP PHASE:

CMI



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | | | | |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$0

KNOWN RELEASES

TEAD-09, SWMU 12/15 NORTH AREA SANITARY LANDFILL

SITE DESCRIPTION

Regulation: RCRA

TEAD's 140-acre, abandoned landfill is located in and around an arroyo and was used from 1942. Until the mid-1980's, access to the landfill was uncontrolled. A wide variety of wastes, including hazardous waste and liquids, have been disposed of here. Groundwater beneath the site is contaminated with volatile organics.

The RFI identified an unacceptable risk for the future resident, construction worker and ecological receptors caused by contamination of metals, SVOCs, VOCs, and pesticides in soil and VOCs in the groundwater.

Groundwater monitoring began in the early 1990s. The boundary fence line was extended in FY00.

PROPOSED PLAN

The proposed plan is to cover the landfill with a soil cover and apply land use controls. Groundwater monitoring will continue.

Additional investigations may be warranted to further characterize the groundwater contaminant source areas within the landfill and to further evaluate the need or design of the cover system.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Volatiles, Metals, Pesticides

MEDIA OF CONCERN:

Groundwater, Soil

COMPLETED IRP PHASE:

Phase I & II RFI, IRA

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI, CMO, and LTM



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | 810 | 4020 | 5634 | 6307 | 3762 | 1967 | |
| CM(O) | 140 | 140 | 140 | 140 | 70 | 70 | 630 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$23,830,000

TEAD-11, SWMU 3 X-RAY LAGOON (BLDG 1223)

SITE DESCRIPTION

Regulation: RCRA

Spent photographic developer and fixer solutions from Building 1223 were released to this 75 by 35 foot lined lagoon between 1974 and 1990. A separate septic tank and associated piping from Bldg 1225 are located next to the west of the pond.

Localized levels of heavy metals were detected in the pond's soils.

IRP STATUS

RRSE RATING: Low Risk (3A)

CONTAMINANTS OF CONCERN:

Metals

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

Phase I & II RFI

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI



PROPOSED PLAN

A CMS is being conducted to evaluate the use of institutional controls to limit future development. Wells may be abandoned as part of the CMI.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-13, SWMU 2 IWL & DITCHES

SITE DESCRIPTION

Regulation: RCRA

Between 1965 and 1988, the IWL received wastewater containing high levels of solvents and heavy metals from the Maintenance Area. The IWL consisted of a lagoon (200 ft. by 400 ft.) and four unlined ditches which connected to one ditch which extended approximately 1.5 miles to the lagoon.

A Consent Order was issued in 1985 and the Corrective Action Permit was issued in 1991.

TCE is the major contaminant and groundwater contamination has migrated beyond the installation's northern boundary. The contaminated soils (volatiles, metals) from the IWL and the ditches were remediated in 1989. A groundwater pump and treat system started operating in late 1993 to address the TCE contaminated water. The treatment system has stopped the migration of the plume (IWL Plume) and the area of contamination no longer extends beyond the boundary.

IRP STATUS

RRSE RATING: Medium Risk (2A)

CONTAMINANTS OF CONCERN:

Heavy Metals, Solvents

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

Phase I & II RFI, IRA (\$4,200K), IRA (\$20,000K)

CURRENT IRP PHASE:

RA(O)

FUTURE IRP PHASE:

RA(O)



PROPOSED PLAN

The pump and treat, and air stripping systems will continue to be run.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| RD | | | | | | | |
| RA(C) | | | | | | | |
| RA(O) | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 12800 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$22,400,000

TEAD-14, SWMU 24 BATTERY PIT

SITE DESCRIPTION

Regulation: RCRA

From 1965 to 1980, electrolyte from lead-acid batteries was released from Building 507 to a small pit adjacent to the building. Lime was routinely placed in the pit. The site has been covered with asphalt.

During the RFI, the old pit area was excavated and a sump was encountered. Low levels of metals were detected. In 1997, an IRA was conducted to remove the sump, over excavate contaminated soils and take analytical samples. Remaining contamination is at a level that poses an unacceptable future residential risk.

PROPOSED PLAN

Land use restrictions will be applied to this site.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I & II RFI, REM

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI



CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|--------|------|------|------|------|------|------|-------|
| R I/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-24A, SWMU 30 OLD IWL

SITE DESCRIPTION

Regulation: RCRA

This site is half on the BRAC parcel and half on the Active portion of the installation.

The 42-acre site, located northwest of the Maintenance Area, consists of a gravel pit, seven former standing liquid areas (referred to as lagoons), and nine ditches. This site was operated for the purpose of disposal of wastewater that contained solvents and heavy metals from 1945 to 1965 at an estimated daily discharge rate of 125,000 gallons.

A groundwater plume contaminated with TCE is fully defined and is being remediated as part of the IWL's (TEAD-13) pump and treat system.

The RFI detected heavy metals, VOCs and SVOCs resulting in a risk to the future resident and a moderate ecological risk.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Metals, VOCs, SVOCs

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I&II RFI

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI



PROPOSED PLAN

Land use restrictions will be needed at this site.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$3,000

TEAD-31, SWMU 11 LAUNDRY EFFLUENT PONDS

SITE DESCRIPTION

Regulation: RCRA

Both the Laundry Effluent Pond and the Sewage Pond are located next to the TNT Washout Facility (TEAD-81). The laundry pond accepted laundry wastewater from approximately 1950 until 1990 and boiler blowdown water until 1995. The sewage pond is a mostly dry pond that appears to receive liquids from a septic tank and leach field. Several debris piles of waste metal cuttings and miscellaneous materials exist to the east of these ponds.

During the RFI, the majority of the cuttings and larger wastes were removed. The RFI found that the sediment contained metals and VOCs; the sludge contained metals, VOCs, and SVOCs; and the soil contained metals and TPH. The risk assessment found unacceptable risks for the future resident, worker and ecological receptors.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Metals, SVOC's, VOCs

MEDIA OF CONCERN:

Soil, Sediment, Surface Water

COMPLETED IRP PHASE:

Phase I & II RFI

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI



PROPOSED PLAN

The proposed plan is to excavate soil (~400cy from the ponds and the debris pile area), dispose of the soil off site, fill with clean soil and land use restrictions.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | 77 | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$80,000

TEAD-50, SWMU 25 BATTERY SHOP

SITE DESCRIPTION

Regulation: RCRA

Building 1252 was the Battery Shop and it was used for the maintenance and repair of vehicle and forklift batteries. Past activities discharged spent battery acid and washdown water to a shallow ditch.

High, localized levels of metals were detected in the ditch during the RFI. The RFI found unacceptable risk to the future resident and on site workers.

TEAD has taken action to install a fence (1995) around the area with the highest levels of metal contamination.

IRP STATUS

RRSE RATING: High Risk(1A)

CONTAMINANTS OF CONCERN:

Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I&II RFI, REM (\$3,200)

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI



PROPOSED PLAN

The proposed plan is to excavate and dispose of contaminated soil off site. Land use restrictions will be applied to prevent future residential development.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| R/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | 175 | | | | | | |
| CM(O) | | | | 1 | | | 2 |
| LTM | | | | | | | |
| LTO | | | | | | | |

PROJECTED TOTAL: \$178,000

TEAD-81, SWMU 10 TNT WASHOUT FACILITY

SITE DESCRIPTION

Regulation: RCRA

This SWMU includes Building 1245 and a series of eight ponds that were used from 1948 to 1986 as a bomb decommissioning facility. Rinse water containing explosives was released to the ponds and allowed to infiltrate and evaporate. A small plume of explosives exists in the groundwater beneath the site and explosive concentrations up to 4% have been found in the ponds' soils.

In 1984, a removal action was conducted which consisted of a liner being placed over four of the old ponds and clean soil being placed on top to help reduce infiltration of precipitation. The settling tanks located immediately to the north of Building 1245 were removed in 1997.

Explosive contamination leads to unacceptable residential, worker, and ecological risk.

PROPOSED PLAN

Explosive contaminated soil (~10,000cy) will be composted onsite. The site will have institutional control and long term monitoring of the groundwater.

CONSTRAINED COST TO COMPLETE

| PHASE | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007+ |
|-------|------|------|------|------|------|------|-------|
| RI/FS | | | | | | | |
| IRA | | | | | | | |
| CMD | | | | | | | |
| CMI | 3850 | | | | | | |
| CM(O) | | | | | | | |
| LTM | 140 | 140 | 140 | 140 | 70 | 70 | 630 |
| LTO | | | | | | | |

PROJECTED TOTAL: \$5,180,000

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Explosives, Volatiles

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE:

Phase I&II RFI, IRA, REM, Pilot Study

CURRENT IRP PHASE:

CMS, CMD

FUTURE IRP PHASE:

CMI, CM(O)



RESPONSE COMPLETE

TEAD-10, SWMU 5 PCB POLE SPILL (POLE 184)

SITE DESCRIPTION

Regulation: CERCLA, OU 7

As a result of a utility pole fire in 1976, PCB-containing oil leaked from a transformer that fell from the utility pole. Following the spill, eleven 55-gallon drums of PCB-1260 contaminated soil were removed. No confirmation sampling was conducted at the time of the cleanup. RI sampling results indicated that low levels of PCBs and dioxins were present in surficial soils. A ROD for placement of a soil cap was signed in FY94. The cap was put in place in 1996.

PROPOSED PLAN

Five-year reviews under the FFA are required.

IRP STATUS

RRSE RATING: Medium Risk (2A)

CONTAMINANTS OF CONCERN:

PCB's, dioxins

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, REM, RI/FS, RD, RA

CURRENT IRP PHASE:

RC

FUTURE IRP PHASE:

RC

TEAD-80, SWMU 14 SEWAGE LAGOONS

SITE DESCRIPTION

Regulation: RCRA, Group B

This site has been used to receive domestic sewage from housing, warehouses, maintenance, and administrative areas since 1974. Industrial wastes may also have been directed to these lagoons. A groundwater mound exists under this site and the water is contaminated with TCE from the IWL & Ditches (TEAD-13) and the North Sanitary Landfill (TEAD-09), both up and down gradient.

PROPOSED PLAN

Since there are no current health risks from this SWMU and the facility remains operational and in use, no further action is recommended. The NFA was approved by UDEQ and EPA in 1997.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Volatiles, Metals

MEDIA OF CONCERN:

Surface Water, Sediment, Soil, Groundwater

COMPLETED IRP PHASE:

Phase I & II RFI

CURRENT IRP PHASE:

RC

FUTURE IRP PHASE:

RC

TEAD-33, SWMU 16

SEPTIC TANKS

SITE DESCRIPTION

Regulation: RCRA

This site was originally used for all of the septic tanks at TEAD. When the installation negotiated the Corrective Action Permit each tank was listed by itself. Therefore, this site is closed.

PROPOSED PLAN

This site requires no future action.

IRP STATUS

RRSE RATING: Not Evaluated

CONTAMINANTS OF CONCERN:

None

MEDIA OF CONCERN:

None

COMPLETED IRP PHASE:

None

CURRENT IRP PHASE:

RC

FUTURE IRP PHASE:

RC

TEAD-21, SWMU 27

RCRA CONTAINER STORAGE

SITE DESCRIPTION

Regulation: RCRA

Building 528 is TEAD's current RCRA-permitted facility for the long-term storage of hazardous waste. Wastes are stored inside the building in segregated areas to minimize spills. This site will require a closure plan under TEAD's Part B permit. The closure activities will not be ER,A eligible. This SWMU was recommended for no further action in the Phase I RFI Report.

PROPOSED PLAN

No response is required under the Corrective Action Permit. RCRA closure activities will be required, but will not be ER,A eligible.

IRP STATUS

RRSE RATING: High Risk (1A)

CONTAMINANTS OF CONCERN:

Metals

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

Phase I RFI

CURRENT IRP PHASE:

RC

FUTURE IRP PHASE:

RC

TEAD-38, SWMU 41 BOX ELDER WASH DRUM SITE

SITE DESCRIPTION

Regulation: CERCLA

This SWMU consisted of seventy-three 55-gallon drums containing a tar-like substance and one 55-gallon drum of solvent-like substance which were dumped into the wash. Sampling of the drums detected low levels of metals and organics and the drums' contents failed the TCLP test. A ROD recommending drum and stained soil removal was signed in FY94. In 1996, the drums and contaminated soil were removed.

PROPOSED PLAN

Approval for NFA from UDEQ and EPA was received in 1997. Five-year reviews are required under the FFA.

IRP STATUS

RRSE RATING: Low Risk (3A)

CONTAMINANTS OF CONCERN:

Metals, Volatiles, & Petroleum

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA/SI, RI/FS, RD, RA

CURRENT IRP PHASE:

RC

FUTURE IRP PHASE:

RC

TEAD-67, SWMU 43 CONTAINER STORAGE FOR P999

SITE DESCRIPTION

Regulation: RCRA

This SWMU consists of Igloos B1002, C117, G308, G1005, and K202. A number of M-55 rocket motor parts were stored in these igloos for an unknown period of time. The parts were moved to Deseret Chemical Depot in the early 1980s. There are no chemicals of concern and corrective action is not planned. This SWMU was recommended for no further action in the Phase I RFI.

PROPOSED PLAN

Approval for NFA was received from UDEQ and EPA.

IRP STATUS

RRSE RATING: NE

CONTAMINANTS OF CONCERN:

None

MEDIA OF CONCERN:

None

COMPLETED IRP PHASE:

Phase I RFI

CURRENT IRP PHASE:

RC

FUTURE IRP PHASE:

RC

SCHEDULE

Because the SWMU's are divided into 3 major groups and 5 sub-groups, there are 5 separate schedules for TEAD. For a schedule of the IRP work completed to date and planned for the next few years at TEAD, see below.

PAST MILESTONES

Site-Wide

| | |
|---------------------------------|--------|
| Initial Installation Assessment | Dec 79 |
| Exploratory Survey | Oct 82 |
| PA/SI | Dec 88 |
| RI | Dec 90 |

FFA SWMUs

| | |
|---|--------|
| Preliminary Baseline Risk Assessment | Feb 93 |
| Memorandum on Remedial Action Objectives | Feb 93 |
| Assembled Alternatives Screening Memorandum | Feb 93 |
| Memorandum on Detailed Analysis of Alternatives | Jan 94 |
| RI (OUs 5,6,7 & 10) | Mar 94 |
| FS (OUs 5,6,7 & 10) | Apr 94 |
| ROD (OUs 5,6,7, & 10) | Sep 94 |
| RD (OUs 7 & 10) | Dec 95 |
| RI (OUs 4, 8, & 9) | Jun 97 |
| RA (OUs 5, 6, 7, & 10) | Sep 96 |

Known Releases SWMUs

| | |
|--------------|--------|
| Phase I RFI | Mar 92 |
| Phase II RFI | May 96 |

Suspected Releases SWMUs

| | |
|-----------------------|--------|
| Phase I RFI | Oct 93 |
| Group A, Phase II RFI | Aug 98 |
| Group B, Phase II RFI | Dec 97 |

PROJECTED MILESTONES

| | |
|-----------------------------------|------|
| Completion of all Remedial Action | 2007 |
|-----------------------------------|------|

SCHEDULE

NO FURTHER ACTION SITES

The following sites currently require no further action under the Tooele Army Depot IRP Program:

| | |
|----------|------------------|
| TEAD-03 | BRAC |
| TEAD-04 | BRAC |
| TEAD-07 | BRAC |
| TEAD-08 | BRAC |
| TEAD-10 | RC |
| TEAD-101 | BRAC |
| TEAD-19 | BRAC |
| TEAD-20 | BRAC |
| TEAD-21 | NOT IRP ELIGIBLE |
| TEAD-22 | BRAC |
| TEAD-23 | BRAC |
| TEAD-24 | BRAC |
| TEAD-25 | BRAC |
| TEAD-26 | BRAC |
| TEAD-30 | BRAC |
| TEAD-32 | BRAC |
| TEAD-33 | RC |
| TEAD-38 | RC |
| TEAD-67 | RC |
| TEAD-69 | BRAC |
| TEAD-70 | BRAC |
| TEAD-80 | RC |
| TEAD-82 | BRAC |
| TEAD-85 | BRAC |
| TEAD-86 | BRAC |
| TEAD-87 | BRAC |
| TEAD-88 | BRAC |
| TEAD-89 | BRAC |
| TEAD-90 | BRAC |
| TEAD-91 | BRAC |
| TEAD-93 | BRAC |
| TEAD-94 | BRAC |
| TEAD-95 | BRAC |
| TEAD-96 | BRAC |
| TEAD-97 | BRAC |
| TEAD-98 | BRAC |
| TEAD-99 | BRAC |

Tooele Army Depot IRP Schedule

(Based on Cost to Complete current funding constraints)

CURRENT PHASE

FUTURE PHASE

| DSERTS # | SITE NAME | PHASE | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 |
|----------|---|-------|---------|---------|---------|---------|---------|---------|---------|
| TEAD-01 | OB/OD Area (SWMU 1) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-05 | Old Burn Area (SWMU 6, OU 8) | RD | | | | | | | |
| | | RA | | | | | | | |
| | | RA(O) | | | | | | | |
| TEAD-06 | Tire Disposal Area (SWMU 13) | RD | | | | | | | |
| | | RA | | | | | | | |
| | | RA(O) | | | | | | | |
| TEAD-09 | North Area Sanitary Landfill (SWMU 12/15) | CMD | | | | | | | |
| | | IRA | | | | | | | |
| | | CMI | | | | | | | |
| | | LTM | | | | | | | |
| TEAD-11 | X-Ray Lagoon (Bldg L-23) (SWMU 3) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-12 | Bomb & Shell Recond Bldg (SWMU 23) | RD | | | | | | | |
| | | RA | | | | | | | |
| | | RA(O) | | | | | | | |
| TEAD-13 | IWL & Ditches (SWMU 2) | RA(O) | | | | | | | |
| TEAD-14 | Battery Pit (SWMU 24) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-15 | Chemical Range (SWMU 7) | RD | | | | | | | |
| | | RA | | | | | | | |
| | | RA(O) | | | | | | | |
| TEAD-16 | Firing Range (SWMU 8) | RD | | | | | | | |
| | | RA | | | | | | | |
| | | RA(O) | | | | | | | |
| TEAD-18 | AED Demilitarization Test Facility (Bldg 1370-1380) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-24A | Old IWL (SWMU 30) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-27 | Wastewater Spreading Area (SWMU 35, OU 4) | RD | | | | | | | |
| | | RA | | | | | | | |
| | | RA(O) | | | | | | | |
| TEAD-28 | Old Burn Staging Area | RD | | | | | | | |
| | | RA | | | | | | | |
| | | RA(O) | | | | | | | |
| TEAD-29 | Contaminated Waste Processor Bldg 1325 (SWMU 37) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |

Tooele Army Depot IRP Schedule

(Based on Cost to Complete current funding constraints)

CURRENT PHASE

FUTURE PHASE

| DSERTS # | SITE NAME | PHASE | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 |
|----------|---|------------|---------|---------|---------|---------|---------|---------|---------|
| TEAD-31 | Laundry & Sewage Ponds (SWMU 11) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-34 | Building 1303 Washout Pond (SWMU 22) | RD | | | | | | | |
| | | RA | | | | | | | |
| | | RA(O) | | | | | | | |
| TEAD-35 | AED Deactivation Furnace (Bldg 1531 & 1352) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-36 | AED Test Range (SWMU 40) | RD | | | | | | | |
| | | RA | | | | | | | |
| | | RA(O) | | | | | | | |
| TEAD-37 | Deactivation Furnace (Bldg 1320) (SWMU 21) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-50 | Battery Shop (SWMU 25) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-54 | Pesticide Handling & Storage Bldg 532 (SWMU 34) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-58 | Bomb Washout Building (SWMU 42) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-70A | Used Oil Dumpsters (SWMU 46) | CMD CMI | | | | | | | |
| TEAD-81 | TNT Washout Facility (SWMU 10) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | LTM | | | | | | | |
| TEAD-83 | Storm Discharge Area (SWMU 45) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |
| TEAD-84 | Old Dispensary Discharge, Bldg 400 (SWMU 48) | CMD | | | | | | | |
| | | CMI | | | | | | | |
| | | CM(O) | | | | | | | |

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

Site, 4. Installation Phase Summary Report

1/19/01

Installation: TOOELE ARMY DEPOT
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:

64

Phase / Status / Sites

| PA | | | | SI | | | |
|----------------|----------|----------|-----------|--------------|----------|----------|-----------|
| C | U | F | RC | C | U | F | RC |
| 64 | 0 | 0 | 0 | 63 | 0 | 0 | 1 |
| RI / FS | | | | RD | | | |
| C | U | F | RC | C | U | F | |
| 42 | 21 | 0 | 26 | 6 | 10 | 10 | |
| RA(C) | | | | RA(O) | | | |
| C | U | F | RC | C | U | F | RC |
| 6 | 0 | 23 | 4 | 0 | 2 | 3 | 0 |
| LTM | | | | | | | |
| C | | | | U | | | |
| 0 | | | | 5 | | | |
| F | | | | N | | | |
| 9 | | | | 50 | | | |

Remedy / Status / Sites (Actions)

| IRA | | | |
|------------|----------|----------|-----------|
| C | U | F | RC |
| 11 (14) | | | 0 (0) |
| FRA | | | |
| C | U | F | RC |
| 6 (7) | | | 0 (0) |
| | | | 23 (25) |

RIP Total: 2

RC Total: 31

Reporting Period End Date: 03/31/2001

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

Site, 9. RISK INSTALLATION ACTION PLAN REPORT

01/19/2001

Installation: TOOELE ARMY DEPOT
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 |
|---------|------|-----------------|---------------------|--------------------|------------------|----------------|---------------|-------------|------------|----------|---------|
| TEAD-01 | 2A | GW | PA | RI | RAC | | | | N | | 200107 |
| | | SL | SI | | | | | | | | |
| TEAD-03 | 3A | SL | PA | | | | | | U | | 200002 |
| | | | RI | | | | | | | | |
| | | | SI | | | | | | | | |
| TEAD-04 | 1A | SL | PA | | | | | | N | | 200007 |
| | | | RI | | | | | | | | |
| | | | SI | | | | | | | | |
| TEAD-05 | 1A | SL | PA | RD | RAC | | | | F | | 200212 |
| | | | RI | | | | | | | | |
| | | | SI | | | | | | | | |
| TEAD-06 | 3A | SL | PA | | | 1 | | | U | | 200002 |
| | | | RI | | | | | | | | |
| | | | SI | | | | | | | | |
| TEAD-07 | 3A | SL | PA | | | | | | N | | 199409 |
| | | | RI | | | | | | | | |
| | | | SI | | | | | | | | |
| TEAD-08 | NE | | PA | | | | | | N | | 199409 |
| | | | RI | | | | | | | | |
| | | | SI | | | | | | | | |
| TEAD-09 | 1A | GW | PA | RI | RAC | 1 | | | F | 200707 | 203207 |
| | | SL | SI | | RAO | | | | | | |
| | | | | | RD | | | | | | |
| TEAD-10 | 2A | SL | PA | | | | | | N | | 199608 |
| | | | RAC | | | | | | | | |
| | | | RD | | | | | | | | |
| | | | RI | | | | | | | | |
| | | | SI | | | | | | | | |

| 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 |
|----------|------|-----------------|-----------------------|--------------------|------------------|----------------|---------------|-------------|------------|----------|---------|
| TEAD-101 | 1A | GW | PA | RI | RAC RAO RD | | | | F | 200509 | 201312 |
| TEAD-11 | 3A | GW | PA | RI | | | | | N | | 200106 |
| TEAD-12 | 2A | GW | PA | RI | RAC RD | | | | F | | 200308 |
| TEAD-13 | 2A | GW | PA | RAO | | 2 | | | F | 199312 | 202509 |
| | | SL | RAC RD RI SI | | | | | | | | |
| TEAD-14 | 1A | GW | PA | RI | | 1 | | | N | | 200110 |
| | | SL | SI | | | | | | | | |
| TEAD-15 | 2A | SL | PA | RI | RAC | 1 | | | F | | 200308 |
| | | | SI | | | | | | | | |
| TEAD-16 | 1A | SL | PA | RD | RAC | | | | F | | 200212 |
| | | | RI SI | | | | | | | | |
| TEAD-18 | 3A | SL | PA | | | | | | N | | 200007 |
| | | | RI SI | | | | | | | | |
| TEAD-19 | NE | | PA | | | | | | N | | 199409 |
| | | | RI SI | | | | | | | | |
| TEAD-20 | 2A | SL | PA | | | | | | N | | 200007 |
| | | | RI SI | | | | | | | | |
| TEAD-21 | 3A | SL | PA | | | | | | N | | 199604 |
| | | | RI SI | | | | | | | | |
| TEAD-22 | 2A | SL | PA | | | | | | N | | 199710 |
| | | | RI SI | | | | | | | | |
| TEAD-23 | 3A | SL | PA | | | | | | N | | 200007 |
| | | | RI SI | | | | | | | | |
| TEAD-24 | 1A | GW | PA | | | | | | N | | 200006 |
| | | SL | RI SI | | | | | | | | |
| TEAD-24A | 1A | GW | PA | RI | | | | | N | | 200110 |
| | | SL | SI | | | | | | | | |

| 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 |
|---------|------|--------------------|-----------------------------|-----------------------|---------------------|-------------------|------------------|----------------|---------------|-------------|------------|
| TEAD-25 | 3A | SL | PA RI SI | | | | | | U | | 200002 |
| TEAD-26 | 3A | SL | PA RI SI | | | | | | N | | 199409 |
| TEAD-27 | 2A | SL | PA RI SI | RD | RAC | | | | N | | 200212 |
| TEAD-28 | 1A | SL | PA RI SI | | | | | | N | | 200002 |
| TEAD-29 | 3A | SL | PA SI | RI | | | | | N | | 200104 |
| TEAD-30 | 3A | SL | PA RI SI | | | | | | N | | 199710 |
| TEAD-31 | 1A | GW SL | PA SI | RI | RAC RD | 1 | | | N | | 200302 |
| TEAD-32 | 3A | SL | PA RI SI | | | | | | N | | 199310 |
| TEAD-33 | NE | | PA SI | | | | | | N | | 198812 |
| TEAD-34 | 2A | SL | PA RI SI | | | 1 | | | U | | 200002 |
| TEAD-35 | 1A | SL | PA RI SI | RD | RAC | | | | N | | 200304 |
| TEAD-36 | 1A | SL | PA SI | RI | RAC RD | | | | F | | 200302 |
| TEAD-37 | 1A | SL | PA SI | RI | RAC RD | | | | N | | 200304 |
| TEAD-38 | 3A | SH | PA RAC RD RI SI | | | | | | N | | 199610 |
| TEAD-50 | 1A | GW SL | PA RI SI | RD | RAC | 1 | | | N | | 200306 |

| 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 |
|----------|------|--------------------|------------------------|-----------------------|---------------------|-------------------|------------------|----------------|---------------|-------------|------------|
| TEAD-54 | 2A | SL | PA RI SI | RD | RAC | | | | N | | 200304 |
| TEAD-58 | 1A | SL | PA RI SI | RD | RAC | 1 | | | N | | 200304 |
| TEAD-67 | NE | | PA RI SI | | | | | | N | | 199310 |
| TEAD-69 | 3A | SH | PA RI SI | | | | | | N | | 199710 |
| TEAD-70 | 3A | SL | PA RI SI | RD | RAC | | | | N | | 200207 |
| TEAD-70A | 3A | SL | PA RI SI | RD | RAC | | | | N | | 200207 |
| TEAD-80 | 1A | GW WEF | PA RI SI | | | | | | N | | 199710 |
| TEAD-81 | 1A | GW SL | PA SI | RI | RAC RAO RD | 3 | | | F | 200306 | 200506 |
| TEAD-82 | 3A | SL | PA RI SI | | | | | | N | | 199310 |
| TEAD-83 | 3A | SL WH | PA SI | RI | | | | | N | | 200104 |
| TEAD-84 | 3A | SL | PA SI | RI | | | | | N | | 200104 |
| TEAD-85 | 3A | SL | PA SI | RI | RAC | | | | N | | 200102 |
| TEAD-86 | NE | | PA SI | RI | | | | | N | | 200012 |
| TEAD-87 | 2A | SL | PA SI | RI | | | | | N | | 200012 |
| TEAD-88 | 3A | SL | PA RI SI | RD | RAC | | | | N | | 200312 |

| 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 |
|---------|------|-----------------|-----------------------------|--------------------|------------------|----------------|---------------|-------------|------------|----------|---------|
| TEAD-89 | 3A | SL | PA RI SI | | | | | | N | | 199710 |
| TEAD-90 | 2A | SL | PA SI | RI | RAC RD | 1 | | | N | | 200212 |
| TEAD-91 | 3A | SL | PA RI SI | | | | | | N | | 199810 |
| TEAD-93 | 2A | SL | PA SI | RI | RAC RD | | | | N | | 200212 |
| TEAD-94 | 1A | SL | PA SI | RI | RAC RD | | | | N | | 200306 |
| TEAD-95 | NE | | PA RAC RD RI SI | RAO | | | | | N | 199906 | 200106 |
| TEAD-96 | NE | | PA RAC RD RI SI | | | | | | N | | 199808 |
| TEAD-97 | NE | | PA RAC RD RI SI | | | | | | N | | 199902 |
| TEAD-98 | NE | | PA RI SI | | | | | | U | | 199906 |
| TEAD-99 | 1A | GW | PA RI SI | | | | | | N | | 200002 |

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: 03/31/2001

REM/IRA/RA ASSESSMENT

PAST REM/IRA/RA

- * TEAD-13, At the IWL (SWMU 2), a soil remediation project has been successfully completed. This action involved the removal of the contaminated soils from the 4 ditches and placing it in the lagoon. The soils and sludges in the lagoon were then bound with native soil and capped with a RCRA-type cap. FY88, \$4,200K.
- * TEAD-13, Another project which has been implemented at the IWL (SWMU 2) is the TCE contaminated ground-water pump, treat and reinjection interim remedial action. Air stripping is the technique being used. FY90, \$272.1K; FY91, \$7,977.7K; FY92, \$7,348.9K; FY93, \$5,557.4K; FY94, \$2,128.0K; FY95, \$2,298.0K; FY96, \$2,115.0K.
- * TEAD-81, A removal at the TNT Washout Facility (SWMU 10) was conducted in 1984. Contaminated soils were left in the 4 ponds. The depressions were covered with a plastic sheeting and then filled in with clean soil. This action was done without regulatory approval. Contaminated groundwater at the SWMU has not yet been cleaned up. FY84, dollar amount unknown.
- * TEAD-25, In 1980, 400 gallons of PCB oil and a large quantity of associated soil were removed from Open Storage Lot 665D (SWMU 32) and properly disposed. Clean soil was brought in to fill the depression. No confirmatory sampling results are available to ensure that the clean-up was complete. FY80, dollar amount unknown.
- * TEAD-10, Eleven, 55-gallon drums of PCB contaminated soils were removed from the base of telephone pole No. 184 (SWMU 5) in the Ammunition Area in 1976. FY76, dollar amount unknown.
- * TEAD-82, In 1991, at SWMU 44, a large TCE degreaser unit located in Building 620 was cleaned of its residue sludge and transferred to DRMO for final disposal or transfer. No contamination remains at this location and no further action is required, FY91, dollar amount unknown.
- * TEAD-06, Over 125,000 used tires were removed from SWMU 13 to the Fallon Naval Air Station where they will be recycled as bombing targets. No contamination is expected to remain at this site once this effort is complete, however, confirmatory sampling is being required by the regulators. FY93, \$160.0K.
- * TEAD-01, OB/OD Area (SWMU 1), Off-post UXO survey & removal and/or detonation-in-place of munitions was completed. FY93, \$776K; FY94, \$463K; FY95, \$59K.
- * TEAD-58, Building 539 Bomb Washout Facility (SWMU 42), a fence was installed to keep personnel away from the lead contaminated soils. FY94, \$4K.
- * TEAD-81, TNT Washout Facility (SWMU 10), a fence was installed to keep personnel away from the explosively contaminated soils. FY95, \$3.8K.
- * TEAD-50, Battery Shop (SWMU 25), a fence was installed to keep personnel away from the contaminated soils. FY95, \$3.2K.
- * TEAD-10, PCB Pole (SWMU 5), Clean soil placed in excavation left from PCB clean-up. FY95, \$26.3K. FY96, \$27K.

REM/IRA/RA ASSESSMENT

PAST REM/IRA/RA

- * TEAD-38, Box Elder Wash Drum Site (SWMU 41), 74 drums removed from bottom & sides of wash and taken for off-site incineration. FY95, \$224.6K. FY96, \$443.4K.
- * TEAD-86, Compressor Condensate Drains (SWMU 50), excavated & removed drain system and associated discharge piping. FY96, dollar amount unknown.
- * TEAD-91, Battery Shop, Building 618 (SWMU 55), moved debris and asbestos materials from sump. FY96, Dollar amount unknown.
- * TEAD-81, TNT Washout Facility (SWMU 10), Removal of metallic settling basins. FY95, \$105K. FY96, \$264.3K.
- * TEAD-13, IWL Decon Facility (SWMU 2), Removal of the decon facility and contaminated soils. FY95, \$93.2K. FY96, \$153K.
- * TEAD-31, Laundry and Sewage Ponds (SWMU 11), Debris removal at the Waste Piles area. FY96, \$40K.
- * TEAD-34, Building 1303 (SWMU 22), Removal of small area of highly contaminated soil (explosives). FY98.
- * TEAD-13, Chemical Range (SWMU 7), Removal of OEW from disposal trench. FY98.
- * **TEAD-09, Landfill (SWMU 12/15), IRA - Boundry Fence installed. FY00.**

CURRENT REM/IRA/RA

- * TEAD-13, IWL (SWMU 2), Long Term Monitoring, average \$160K/year.
- * TEAD-09, Landfill (SWMU 12/15), Long Term Monitoring, appx. \$115K/year.
- * TEAD-81, TNT Washout Pond (SWMU 10), Long Term Monitoring, Appx. 115K/year.

FUTURE REM/IRA/RA

- * TEAD-01, 06, 11, 14, 15, 18, 24A, 28, 29, 34, 54, Site Management Plan
- * TEAD-05, 16, 58, excavation and stabilization
- * TEAD-09, North Area Sanitary Landfill (SWMU12/15), soil cover and fence
- * TEAD-12, 27, 31, 36, 50, excavation
- * TEAD-35, 37, asphalt cap

PRIOR YEAR FUNDING

FY79

| | |
|--------------------|----------|
| Initial Assessment | \$25,000 |
|--------------------|----------|

FY82

| | |
|--------------------|-----------|
| Exploratory Survey | \$422,500 |
|--------------------|-----------|

FY85

| | |
|---|---------|
| Preliminary Assessment/Site Investigation | \$5,000 |
|---|---------|

FY87

| | |
|--|-----------|
| PA/SI | \$30,000 |
| Remedial Investigation/Feasibility Study | \$536,300 |
| IWL Remedial Action | \$168,400 |

FY88

| | |
|---------------------|-------------|
| RI/FS | \$245,900 |
| IWL Off Post RI/FS | \$2,224,100 |
| IWL Remedial Action | \$4,200,000 |

FY89

| | |
|-----------|-------------|
| RI/FS | \$1,525,700 |
| IWL RI/FS | \$646,700 |
| IWL S&A | \$231,300 |

FY90

| | |
|---------------------------|-----------|
| RI/FS | \$155,600 |
| IWL Remedial Design RD/RA | \$272,100 |

FY91

| | |
|----------------------------|-------------|
| North Area RI/FS & RFI | \$3,773,600 |
| IWL RD/RA | \$7,977,700 |
| Installation Support: TEAD | \$8,000 |

FY92

| | |
|---------------------|-------------|
| RI/FS | \$813,000 |
| RFI | \$3,326,700 |
| State Reimbursement | \$57,400 |
| IWL RD/RA/S & A | \$7,348,900 |

PRIOR YEAR FUNDING

FY93

| | |
|----------------------|-------------|
| RI/FS | \$3,474,500 |
| RFI | \$2,540,000 |
| Off Post UCO's | \$775,500 |
| State Reimbursement | \$31,400 |
| IWL RD/RA/S&A | \$5,804,400 |
| SWMU 13 Tire Removal | \$160,000 |

FY94

| | |
|--------------------------------|-------------|
| TNT Washout Fac. REM | \$40,000 |
| Off Post UXO's REM | \$519,000 |
| Reimbursement of State Service | \$36,900 |
| GW Treatment-IWL | \$1,600,000 |
| GW Treatment-IWL S&A | \$528,000 |
| GW Sampling & Analysis | \$225,000 |
| Kn Rel RFI | \$1,400 |
| FFA RI/FS | \$1,725,000 |
| Group B RFI | \$26,700 |
| Group A RFI | \$84,900 |
| Decon Pad Removal | \$15,000 |
| Box Elder RD/RA | \$15,000 |

FY95

| | |
|--------------------------|-------------|
| Public Relations | \$39,000 |
| TEAD-N Off-Post UXOs | \$35,400 |
| Decon Pad RD/RA | \$236,000 |
| TNT Washout Fac. RD/RA | \$344,400 |
| Box Elder RD/RA | \$433,400 |
| Reimbursement Of Ut Ser. | \$35,300 |
| GW Treatment-IWL | \$1,850,000 |
| GW Sampling & Analysis | \$324,500 |
| GW Treatment-IWL, S&A | \$48,000 |
| Installation Support | \$39,000 |
| Known Rel CMS | \$40,000 |
| RD S&A | \$96,000 |
| Group B RFI/CMS | \$59,400 |
| Sewer Box RD/RA | \$51,000 |
| Battery Pit RD/RA | \$3,000 |

PRIOR YEAR FUNDING

FY96

| | |
|----------------------------|-------------|
| GW Monitoring Kn Rel | \$845,200 |
| FFA RI/FS | \$1,092,000 |
| FFA RD/RA | \$181,800 |
| Group A RFI/CMS | \$1,261,000 |
| Group B RFI/CMS | \$786,500 |
| Kn Rel RFI/CMS | \$2,720,000 |
| GW Treatment OPS | \$2,444,000 |
| Installation Support | \$118,200 |
| Decon Pad-IWL REM | \$10,000 |
| Box Elder Drum Site RA | \$15,000 |
| TNT Facility Tank REM | \$15,000 |
| Battery Pit REM | \$60,000 |
| Reimbursement of Utah SVCS | \$39,000 |

FY97

| | |
|--|-----------|
| TNT Washout Facility REM/SA (TEAD93-025) | \$10,000 |
| GW Monitoring Kn Rel (TN-SF-28) | \$272,000 |
| FFA UT Reimb. (TN-91-019) | \$50,000 |
| Kn Rel RD (TN-SF-28) | \$40,000 |
| Kn Rel IRA (TN-SF-28) | \$40,000 |
| Kn Rel PY/RA (TN-SF-28) | \$5,000 |
| GW Treatment OPS (TN-SW-27) | \$999,000 |
| GW Treatment PY/RI (TN-SW-27) | \$230,000 |
| TRC (TEAD97-001) | \$24,000 |

FY98

| | |
|-------------------------------------|-------------|
| TEAD-09, Landfill (LTM) | \$115,000 |
| TEAD-81, TNT Washout Ponds (LTM) | \$115,000 |
| TEAD-13, IWL and Ditches (RA) | \$160,000 |
| TEAD-13, IWL and Ditches (LTO) | \$2,470,000 |
| TEAD-05, State Reimbursement (PGMT) | \$100,000 |
| Technical Review Committee (PGMT) | \$24,000 |

FY99

| | |
|----------------------------------|-------------|
| TEAD-81, TNT Washout Ponds (LTM) | \$115,000 |
| TEAD-13, IWL and Ditches (LTM) | \$142,000 |
| TEAD-13, IWL and Ditches (LTO) | \$2,014,000 |
| TEAD-09, Landfill (LTM) | \$115,000 |

PRIOR YEAR FUNDING

FY00

| | |
|---|----------------|
| TEAD-13, IWL and Ditches (LTO) | \$1,900,000 |
| TEAD-09, Sanitary Landfill (LTM) | \$150,000 |
| TEAD-09, Sanitary Landfill (IRA) | \$19,000 |
| TEAD-09, Sanitary Landfill (RD) | \$350,000 |
| TEAD-81, TNT Washout Ponds (LTM) | \$150,000 |
| TEAD-05, Old Burn Area (RD) | \$285,000 |
| TEAD-27, Wastewater Spreading Area (RD) | \$75,000 |
| TEAD-16, Firing Range (RD) | \$225,000 |
| TEAD-06, Tire Disposal Site (RA) | \$5,000 |
| TEAD-28, Old Burn Staging Area(CMI) | \$5,000 |
| TEAD-34, Bldg 1303 Washout Ponds (RA) | \$5,000 |
| TEAD-70, Used Oil Dumpsters (CMI) | \$10,000 |
| TEAD-18, AED Demil Facility (CMI) | \$5,000 |
| TEAD-84, Old Dispensary (CMI) | \$5,000 |
| TEAD-81, TNT Washout Ponds (CMD) | \$346,000 |
| TEAD-50, Battery Shop (CMD) | \$49,000 |
| TEAD-31, Laundry Pond (CMD) | \$14,000 |
| TEAD-14, Battery Pit (CMI) | \$5,000 |
| TEAD-24A, Old Industrial Waste Lagoon (CMI) | \$5,000 |
| TEAD-11, X-Ray Lagoon (CMD) | \$9,000 |
| TEAD-35, Deactivation Furnace (CMD) | \$12,000 |
| TEAD-37, Deactivation Furnace (CMD) | \$14,000 |
| TEAD- 53, Pesticide Storage and Mixing Facility (CMD) | \$22,000 |
| TEAD-01, OB/OD Area (CMI) | \$10,000 |
| TEAD-29, Contaminated Waste Processor (CMI) | \$5,000 |
| TEAD-83, Stormwater Discharge Area (CMI) | <u>\$5,000</u> |
| | \$6,043,000 |
| | |
| TOTAL Prior Year Funding: | \$74,211,000 |
| | |
| FY 01 Funding: | \$8,681,000 |
| | |
| Estimated Future Funding: | \$45,503,000 |
| | |
| TOTAL from inception to completion: | \$128,395,000 |

Tooele Army Depot - FY01 - Constrained Cost to Complete

| DSERTS # | SITE TITLE | PHASE | FY01 | FY02 | FY03 | FY04 | FY05 | FY06 | FY07+ | TOTAL | DESCRIPTION OF WORK | |
|----------|---|-------|-------|-------|-------|-------|-------|-------|--------|--------|--|--|
| TEAD-01 | OB/OD Area (SWMU 1) | CMD | | | | | | | | 0 | Site Management Plan | |
| | | CMI | | | | | | | | 0 | Site Management Plan | |
| | | CM(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |
| TEAD-05 | Old Burn Area (SWMU 6, OU 8) | RD | | | | | | | | 0 | 0 | excavation and stabilization of ~2800cy |
| | | RA | 650 | | | | | | | 0 | 650 | excavation and stabilization of ~2800cy |
| | | RA(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |
| TEAD-06 | Tire Disposal Area (SWMU 13) | RD | | | | | | | | 0 | 0 | Site Management Plan |
| | | RA | | | | | | | | 0 | 0 | Site Management Plan |
| | | RA(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |
| TEAD-09 | North Area Sanitary Landfill (SWMU 12/15) | CMD | | | | | | | | 0 | 0 | Soil cover for 140-acre landfill |
| | | IRA | | | | | | | | 0 | 0 | fence |
| | | CMI | 810 | 4,020 | 5,634 | 6,307 | 3,762 | 1,967 | | 0 | 22,500 | Soil cover for 140-acre landfill |
| | | LTM | 140 | 140 | 140 | 140 | 70 | 70 | 630 | 1,330 | 1,330 | start semi-annual, 7 wells, drop to annual |
| TEAD-11 | X-Ray Lagoon (Bldg L-23) (SWMU 3) | CMD | | | | | | | | 0 | 0 | Site Management Plan |
| | | CMI | | | | | | | | 0 | 0 | Site Management Plan, well abandonment |
| | | CM(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |
| TEAD-12 | Bomb & Shell Recond Bldg (SWMU 23) | RD | 15 | | | | | | | 0 | 15 | excavation, treatment |
| | | RA | | 130 | | | | | | 0 | 130 | excavation, treatment |
| | | RA(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |
| TEAD-13 | IWL & Ditches (SWMU 2) | RA(O) | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 12,800 | 22,400 | operations of groundwater treatment system | |
| TEAD-14 | Battery Pit (SWMU 24) | CMD | | | | | | | | 0 | 0 | Site Management Plan |
| | | CMI | | | | | | | | 0 | 0 | Site Management Plan |
| | | CM(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |
| TEAD-15 | Chemical Range (SWMU 7) | RD | 1 | | | | | | | 0 | 1 | Site Management Plan |
| | | RA | 4 | | | | | | | 0 | 4 | Site Management Plan, well abandonment |
| | | RA(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |
| TEAD-16 | Firing Range (SWMU 8) | RD | | | | | | | | 0 | 0 | excavation and stabilization of ~2400cy |
| | | RA | 550 | | | | | | | 0 | 550 | excavation and stabilization of ~2400cy |
| | | RA(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |
| TEAD-18 | AED Demilitarization Test | CMD | | | | | | | | 0 | 0 | Site Management Plan |
| | | CMI | | | | | | | | 0 | 0 | Site Management Plan |
| | | CM(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |
| TEAD-24A | Old IWL (SWMU 30) | CMD | | | | | | | | 0 | 0 | Site Management Plan |
| | | CMI | | | | | | | | 0 | 0 | Site Management Plan |
| | | CM(O) | | | | 1 | | | | 2 | 3 | 5-year reviews |

Tooele Army Depot - FY01 - Constrained Cost to Complete

| DSERTS # | SITE TITLE | PHASE | FY01 | FY02 | FY03 | FY04 | FY05 | FY06 | FY07+ | TOTAL | DESCRIPTION OF WORK |
|----------|---|-------|------|------|------|------|------|------|-------|-------|---|
| TEAD-27 | Wastewater Spreading Area (SWMU 35, OU 4) | RD | | | | | | | 0 | 0 | excavation of pesticide-contaminated soil |
| | | RA | | | | | | | 0 | 0 | excavation of pesticide-contaminated soil |
| | | RA(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| TEAD-28 | Old Burn Staging Area | RD | | | | | | | 0 | 0 | Site Management Plan |
| | | RA | | | | | | | 0 | 0 | Site Management Plan |
| | | RA(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| TEAD-29 | Contaminated Waste | CMD | | | | | | | 0 | 0 | Site Management Plan |
| | | CMI | | | | | | | 0 | 0 | Site Management Plan |
| | | CM(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| TEAD-31 | Laundry & Sewage Ponds (S) | CMD | | | | | | | 0 | 0 | Excavation of ~400cy, clean fill |
| | | CMI | 77 | | | | | | 0 | 77 | Excavation of ~400cy, clean fill |
| | | CM(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| TEAD-34 | Building 1303 Washout Pond (SWMU 22) | RD | | | | | | | 0 | 0 | Site Management Plan |
| | | RA | | | | | | | 0 | 0 | Site Management Plan |
| | | RA(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| TEAD-35 | AED Deactivation Furnace (Bldg 1531 & 1352) | CMD | | | | | | | 0 | 0 | asphalt cap |
| | | CMI | 12 | | | | | | 0 | 12 | asphalt cap |
| | | CM(O) | 1 | | 1 | 1 | 1 | | 7 | 11 | cap maintenance, 5-year reviews |
| TEAD-36 | AED Test Range (SWMU 40) | RD | 50 | | | | | | 0 | 50 | excavation of contaminated soil |
| | | RA | | 420 | | | | | 0 | 420 | excavation of contaminated soil |
| | | RA(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| TEAD-37 | Deactivation Furnance (Bldg 1320) (SWMU 21) | CMD | | | | | | | 0 | 0 | asphalt cap |
| | | CMI | 25 | | | | | | 0 | 25 | asphalt cap ~1,000 s. yds. |
| | | CM(O) | 1 | | 1 | 1 | 1 | | 7 | 11 | cap maintenance, 5-year reviews |
| TEAD-50 | Battery Shop (SWMU 25) | CMD | | | | | | | 0 | 0 | stabilization of ~500cy of soil |
| | | CMI | 175 | | | | | | 0 | 175 | stabilization of ~500cy of soil |
| | | CM(O) | | | | 1 | | | 2 | 3 | 5-year review |
| TEAD-54 | Pesticide Handling & Storage Bldg 532 (SWMU 21) | CMD | | | | | | | 0 | 0 | Site Management Plan |
| | | CMI | | | | | | | 0 | 0 | Site Management Plan |
| | | CM(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| TEAD-58 | Bomb Washout Building (SWMU 42) | CMD | | | | | | | 0 | 0 | excavation & stabilization of 2,700cy |
| | | CMI | 580 | | | | | | 0 | 580 | excavation & stabilization of 2,700cy |
| | | CM(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| TEAD-70A | Used Oil Dumpsters (SWMU 46) | CMD | | | | | | | 0 | 0 | Soil excavation (~33cy) |
| | | CMI | | | | | | | 0 | 0 | Soil excavation (~33cy) |

Tooele Army Depot - FY01 - Constrained Cost to Complete

| DSERTS # | SITE TITLE | PHASE | FY01 | FY02 | FY03 | FY04 | FY05 | FY06 | FY07+ | TOTAL | DESCRIPTION OF WORK |
|---|--|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|---|
| TEAD-81 | TNT Washout Facility (SWMU 10) | CMD | | | | | | | 0 | 0 | excavation of ~10,000 cy, composting |
| | | CMI | 3,850 | | | | | | 0 | 3,850 | excavation of ~10,000 cy, composting |
| | | LTM | 140 | 140 | 140 | 140 | 70 | 70 | 630 | 1,330 | starting w/ semi-annual, 7 wells, dropping to annue |
| TEAD-83 | Storm Discharge Area (SWMU 45) | CMD | | | | | | | 0 | 0 | Site Management Plan |
| | | CMI | | | | | | | 0 | 0 | Site Management Plan |
| | | CM(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| TEAD-84 | Old Dispensary Discharge, Bldg 400 (SWMU 48) | CMD | | | | | | | 0 | 0 | excavation & stabilzation of 2,700cy |
| | | CMI | | | | | | | 0 | 0 | excavation & stabilzation of 2,700cy |
| | | CM(O) | | | | 1 | | | 2 | 3 | 5-year reviews |
| SCAL YEAR TOTALS IN THOUSANDS OF DOLLARS | | | \$ 8,681 | \$ 6,450 | \$ 7,516 | \$ 8,210 | \$ 5,504 | \$ 3,707 | \$ 14,116 | \$ 54,184 | |
| | POM | | 8,681 | 6,450 | 7,516 | 8,210 | 5,504 | 3,707 | | | |
| | Difference | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | \$ 54,184 | |

COMMUNITY INVOLVEMENT

A. STATUS OF COMMUNITY INVOLVEMENT

The Tooele Army Depot maintains an active community involvement program through quarterly Technical Review Committee Meetings to address the on-going IRP Program. These meetings are public meetings and are advertised in the local newspaper as well as through the mailing of notices to those individuals on Tooele Army Depot's mailing list. Even though the public is invited, typically there is minimal participation by the public. Those that typically attend the meetings are from state, federal, and local agencies.

B. DETERMINING INTEREST IN ESTABLISHING A RAB

Tooele Army Depot formed a RAB to address issues relating to restoration efforts on excess property resulting from the BRAC 93 decision to realign Tooele Army Depot's maintenance mission. This RAB was formed separately from the TRC and Tooele Army Depot felt that it would be better to address BRAC and IRP issues separately. The BRAC RAB was formed in 1994 and included 18 members. These members represented local, state, and federal agencies, as well as the Army and the public. The RAB included 18 public members. In an effort to stimulate more interest in the on-going IRP program, the BRAC RAB was combined with the TRC in 1999.

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

Installation, 7. RAB REPORT

01/19/2001

Command: AMC
Installation: TOOELE ARMY DEPOT

SubCommand: OSC

RAB Established Date: 199404 **Reason RAB Not Establish:**
RAB Adjourned Date: 200509 **Reason RAB Adjourned:**

TRC Date: 198802

RAB Community Members:

Business Community

Total RAB Community Members:

14

RAB Government Members:

Environmental Protection Agency

Total RAB Government Members:

4

RAB Activities:

Advice On Scope/Sch Studies/Cleanup

RAB Advice

Future Land Use

TAPP Application Approval Date:

TAPP Project Title:

03/31/2001

TAPP Project Description:

Purchase Order

Award Number

Award Date

Completion Date