

Fort Huachuca  
Sierra Vista, Arizona, Cochise County  
Project Background

Agency Contacts

Nancy Lou Minkler , ADEQ Project Manager	(602) 207-4187
Craig Kafura, ADEQ Hydrologist	(520) 628-6742
Mike Skinner, ADEQ UST Compliance Officer	(602) 207-4304

Department of Defense Contacts

Tom Cochran, Ft Huachuca Environmental Services	(520) 533-3120
Jim Laughlin, Ft Huachuca Environmental Services	(520) 533-3120
	Fax (520) 533-3043

Consultant

James M. Montgomery, Consulting Engineers 365 Lennon Lane Walnut Creek, CA 94598	(415) 975-3400
Bruce McMaster, Vice President	
John Scott, Project Manager	(818) 568-6921
Stuart Michener, Site Project Hydrologist	(520) 459-4796

REGULATORY STATUS

The Arizona Department of Environmental Quality is assisting the Department of Defense in its remedial activities being conducted under the federal Installation Restoration Program (IRP). Environmental issues at Fort Huachuca require involvement of the RCRA Compliance Unit, RCRA Permits Unit, Remedial Projects Unit, Waste Compliance Unit, Underground Storage Tanks Unit, and appropriate Hydrology personnel. Administration of RCRA regulations and compliance has been made through inspections and reports, the base Environmental Management Team, and RCRA Compliance Order 0-10-91. Future administration will be made through consent orders being prepared by the ADEQ RCRA Compliance Unit, and is under review by the base, the Army Corps of Engineers (ACE) and the EPA.

SITE DESCRIPTION

Fort Huachuca is located in Cochise County on the western flank of the San Pedro River Valley. The Town of Sierra Vista is located east of Fort Huachuca at the main entrance to the base. The base is irregular in shape and occupies an area of 115 square miles. Surface elevations on the base range from 3,900 to 8,700 feet.

## SITE HISTORY

Numerous sites are under investigation on the base. The following documents give information and findings from various on base sites under consideration. This list summarized the sites on base being investigated, reviewed or otherwise considered for Remediation.

### Remedial Alternatives Assessment

Sites: LAAF Fire fighting Training Area  
LAAF Aircraft Wash Rack Area  
LAAF POL Storage Facility  
Military POL Filling Station  
East Range Mine Shaft

### Preliminary Assessment/Site Investigation Report Misc. Non-UST Sites

Study by U.S. Army Corps of Engineers (USACE)

Sites: Open Burning/Open Detonation(OB/OD) Area  
South Range Landfill  
Vehicle Paint Booth  
(Not assigned)  
TMP Automatic Wash Rack  
TMP Motor Pool Drum Storage Areas  
TMP Motor Pool Aboveground Waste Tank  
11th Signal Brigade Motor Pool Washrack  
Golf Course Pesticide Mix Area  
Building #30033 Pesticide Mix Area  
AMSA Washrack  
TMP Steam Cleaning Facility  
11th Signal Brigade Motor Pool Spill Sites

### Tank Trails Dump Sites - Six (6) Sites

#### "Group D" Sites

AMSA Waste Oil Tank  
PX Service Station Waste Oil Tank  
Six (6) Waste Soil Piles

## SITE SPECIFIC PROPOSED REMEDIES

LAAF Firefighting Training Area - Lead is present at the site and a Baseline Risk Assessment based on lead should be done. Capping is recommended for this site as the most cost effective alternative.

LAAF Aircraft Wash Rack Area - Excavation is recommended for this site, with removal of soils containing lead to an engineered landfill. The project should take less than six (6) months to complete.

LAAF POL Storage Facility - A baseline risk assessment performed for the site indicated there was no adverse health risk. No action is recommended for this site.

Military POL Filling Station - Contamination resulted from a leaking underground storage tank (UST). Soil vapor extraction is recommended for this site. The estimated cost is approximately \$350,000 and should take less than three (3) years to implement.

East Range Mine Shaft - This site is a vertical mine shaft that was used for disposal of unknown materials. It was filled with earth some time ago, but has settled leaving a depression that promotes infiltration of surface water and the potential for vertical migration of contamination to the groundwater. Three (3) groundwater monitoring wells have been installed. No contamination in excess of any action levels has been found in these wells. Capping is recommended to stop the flow into the mine shaft. Groundwater monitoring will continue at the site.

Open Burning/ Open Detonation (OB/OD) Area - The concentrations of lead and beryllium found at the site exceed HBGLs. No risk assessment was made. The USACE study recommends No Action and closure.

[On August 23, 1995, ADEQ's Hazardous Waste Permits Unit (HWPU) visited Fort Huachuca to inspect four newly discovered pre-RCRA open burning/open detonation (OB/OD) sites. Subsequent to the site visit it was agreed too between the Federal Facilities Unit (FFU) and the HWPU that the newly discovered pre-RCRA OB/OD sites should be closed under the RCRA program to be consistent with the ongoing closure of similar RCRA units at the Fort. On September 18, 1995, ADEQ received completed "Information Regarding Potential Releases From Solid Waste Management Units" forms from Fort Huachuca.]

South Range Landfill - Leachate from the landfill exceeds HGBLs for dieldrin, p,p'DDD, cadmium and lead and contains detectable concentrations of priority pollutant metals, VOCs, BNAs, organophosphorus pesticides, and herbicides. No Baseline Risk Assessment has been made. The USACE recommends monitoring and closure.

Vehicle Paint Booth - Samples show no concentrations of VOCs or metals indicating significant contamination. No Baseline Risk Assessment has been made. The USACE recommends no action.

TMP Automatic Washrack - Lead exceeds the HBGL. No baseline risk assessment has been made. The USACE recommends no action.

TMP Steam Cleaning Facility - Soil at the site had levels of TRPH up to 5800 mg/kg, and lead was detected below the HGBL. The USACE recommends continued evaluation of the site and removal of soil containing TRPH greater than the recommended cleanup level.

11th Signal Brigade Motorpool Spill Sites - Soil at the site had levels of lead and TRPH greater than HGBLs. The USACE recommends continued evaluation of the site, with removal of soil containing TRPH or lead greater than the recommended cleanup levels.

Tank Trails Dump Sites (TTDS) - Insignificant levels of contamination have been found at these six (6) sites. However, provisions have been made for continued Groundwater monitoring at Site 5. The USACE recommends no action at the other five (5) sites.

Group "D" Sites:

AMSA Waste Oil Tank and PX Service Station Waste Oil Tank - Waste oil tanks have been removed. Continued investigation of residual contamination is recommended.

Waste Soil Piles - Two (2) of the six (6) piles of waste soils contain lead significantly above the HGBL.

The following sites contain some detectable hazardous substances, but none above HGBLs. No baseline risk assessment has been made. For these sites the USACE recommends no action.

Golf Course Pesticide Mix Area

TMP Motorpool Drum Storage Area

TMP Motorpool Aboveground Waste Tank

AMSA Washrack

11th Signal Brigade Motorpool Washrack

Building #30033 Pesticide Mix Area