















Record of Decision (ROD) Abstracts

ANDERSEN AIR FORCE BASE



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Site Information:

Site Name:ANDERSEN AIR FORCE BASE
Address:PERIMETER RD
 YIGO, GU 96912

EPA ID:GU6571999519
EPA Region:09
County:010 GUAM

Latitude:13.572916
Longitude:144.897361

NPL Status:Currently on the Final NPL
Federal Facility Flag:Federal Facility
 Incident Category:Landfill

Record of Decision (ROD) List:

	ROD ID	ROD Date	OU
1	EPA/541/R-98/041	06/16/1998	03

1) Record of Decision (ROD):

Operable Unit:03
ROD ID:EPA/541/R-98/041
ROD Date:06/16/1998

Media:Groundwater, Soil

Contaminant:Inorganics, Metals, Organics, PAH, PCBs,
 Pesticides, VOC

Abstract: Please note that the text in this document summarizes the Record of Decision for the purposes of facilitating searching and retrieving key text on the ROD. It is not the officially approved abstract drafted by the EPA Regional offices. Once EPA Headquarters receives the official abstract, this text will be replaced.

Andersen Air Force Base (AFB), an operational facility, is located on the northern half of the island of Guam. The site consists of several parcels of land, comprising North and Northwest Fields, and is 8 miles wide, between 2 and 4 miles long, and covers approximately 24.5 square miles. Several non-contiguous properties are also part of Andersen AFB including the Harmon Annex that contains a 2.8 square mile area, and the Marianas/Bonins Command (MARBO) Annex that covers a 3.8 square mile area.

Most of the land in the northern portion of Guam is used by the Air Forces and Naval operations on their respective installations. Land uses on other parts of the island include residential, agricultural, and conservation reserve.

Andersen AFB is located in the Northern Physiographic Province of Guam. Numerous sinkholes are present on the northern plateau. The sinkholes and the very porous limestone bedrock provide rapid surface water infiltration with ultimate percolation to the underlying fresh water aquifer. The primary use of groundwater is for human consumption.

Following the addition of Andersen AFB to the National Priorities List (NPL) in October 1992, The United States Air Forces (USAF) entered into a Federal Facility Agreement (FFA) with United States Environmental Protection Agency (USEPA) and Guam Environmental Protection Agency (GEPA). In 1976, Department of Defense began the Installation Restoration Program (IRP). In response to changes in the National Contingency Plan (NCP) brought about by Superfund Amendments and Reauthorization Act of 1986 (SARA), the USAF IRP was modified in November 1986. In July 1987, Executive Order 12580 was signed, and the responsibility to conduct site investigations and remedial actions at Federal facilities was delegated to the Secretaries of

Defense and Energy. In June 1998, a Record of Decision (ROD) was issued that addressed all the sites located on the MARBO Annex, as Operable Unit 3 (OU3), and the groundwater in for sub basins (AS OU2).

Remedy:The selected remedy consists of removing the soil at Sites 22 (Waste Pile 6), 24 (Landfill 29), and 38 (MARBO Laundry), covering the soil at Site 20 (Waste Pile 7), and natural attenuation of groundwater with wellhead treatment. The soil removal alternative consists of the following: excavation of soil with contaminant concentrations exceeding cleanup screening criteria; backfill and compaction of the excavations with clean soil will be performed; confirmatory sampling will be performed after an excavation to verify that soil exceeding the screening criteria is removed; impacted soil and debris which are considered non-hazardous will be excavated and disposed of as a solid waste in the Andersen Air Force Base (AFB) solid waste landfill; if the soil and debris are considered hazardous then it will be consolidated for off-island disposal at a licensed hazardous waste facility. The soil cover alternative consists of the following: soil cover construction over 1.8-acres of Site 20; fill consisting of locally available crushed coral will be used to establish a subgrade layer of 6 inches in depth that will be followed with a 12 inch soil layer consisting of clayey silt obtained from borrow sources on the island; a final 6 inch soil layer will be used to accommodate the root system of the vegetation established over the covered area; a fence will be constructed around the site to prevent access during revegetation; signs will be posted to restrict access; and deed restrictions to place legal constraints on any future use of the site. The selected remedy for groundwater includes: natural attenuation of trichloroethene (TCE) and perchloroethene (PCE) in the aquifer; continued wellhead treatment at those wells which are presently undergoing air stripping; long-term sampling and monitoring of select production wells in the MARBO Annex, and adjacent to the MARBO Annex; and institutional controls to monitor groundwater development in those areas impacted by TCE and PCE.


Estimated Capital Costs: \$767,400

Estimated Annual O&M Costs: not provided

Estimated Present Worth Costs: \$4,665,200
Present Worth O&M Costs: \$3,897,800

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