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NAS FORT WORTH
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FACT SHEET NUMBER 1 RESTORATION ADVISORY BOARD NAS FORT WORTH TX
2/12/1998
RESTORATION ADVISORY BOARD



**NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS**

**ADMINISTRATIVE RECORD
COVER SHEET**

AR File Number 474



NAS Fort Worth Joint Reserve Base Installation Restoration Program

Fact Sheet #1 - February 12, 1998

NAS FORT WORTH JRB INSTALLATION RESTORATION PROGRAM (IRP)

This is the first in a series of fact sheets focusing on the Installation Restoration Program (IRP) at NAS Fort Worth Joint Reserve Base (JRB). The NAS JRB, formerly Carswell Air Force Base, is in the process of planning and conducting activities for the identification, remediation, and closure of contaminated sites at the base.

The IRP is DoD's primary mechanism for environmental response actions on U.S. Air Force installations. IRP activities are governed by provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA) and other applicable federal and state regulations. These activities are being conducted through the combined effort of the Air Force Center for Environmental Excellence (AFCEE) and the Air Force Base Conversion Agency (AFBCA). Under provisions of the Resource Conservation and Recovery Act (RCRA), the Air Force identified 68 solid waste management units (SWMUs) for further study and cleanup if needed.

For More Information

If you would like more information about the Installation Restoration Program at NAS Fort Worth JRB, contact Joseph Dunkle, HQ AFCEE, at 210/536-5290.

AOC 2 FIELD WORK PROGRESSES

Field work for the RCRA Facility Investigation (RFI) for Area of Concern 2 (AOC 2) is nearly 70 percent complete. AOC 2 includes all areas on the east side of the runway where trichloroethene (TCE) has been detected in shallow groundwater (see the illustration on page 2). TCE contamination at NAS Fort Worth JRB is generally confined to three areas, called lobes, in the southern, central, and northern portions of AOC 2. Characterization of the AOC 2 TCE in the central and southern lobes has been ongoing through other investigations. The AOC 2 RFI is focused on completing characterization and source definition of the northern lobe of contamination.

RFI tasks completed to-date include:

- Conducting geophysical surveys along six transects located in the flightline area.
- Installing 15 new groundwater monitoring wells in the northern lobe to expand the amount of information available about AOC 2 groundwater.
- Collecting subsurface soil samples during drilling activities.
- Collecting the first round of groundwater samples from new and existing wells in the AOC 2 study area.
- Testing new and existing wells to gather information about the rate of groundwater flow.
- Surveying of new sample and monitor well locations.

The following RFI activities remain to be completed:

- Conducting the 2nd and 3rd rounds of groundwater sampling in new and existing wells.
- Managing and validating analytical data from the soil and groundwater sampling efforts.
- Evaluating the nature and extent of contamination affecting AOC 2.

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Performing a risk assessment to evaluate the potential for contaminants from AOC 2 to pose a threat to human health or the environment.

Completing the AOC 2 RFI Report.

Submission of the final RFI Report to the Texas Natural Resource Conservation Commission (TNRCC) is planned for November 1998.

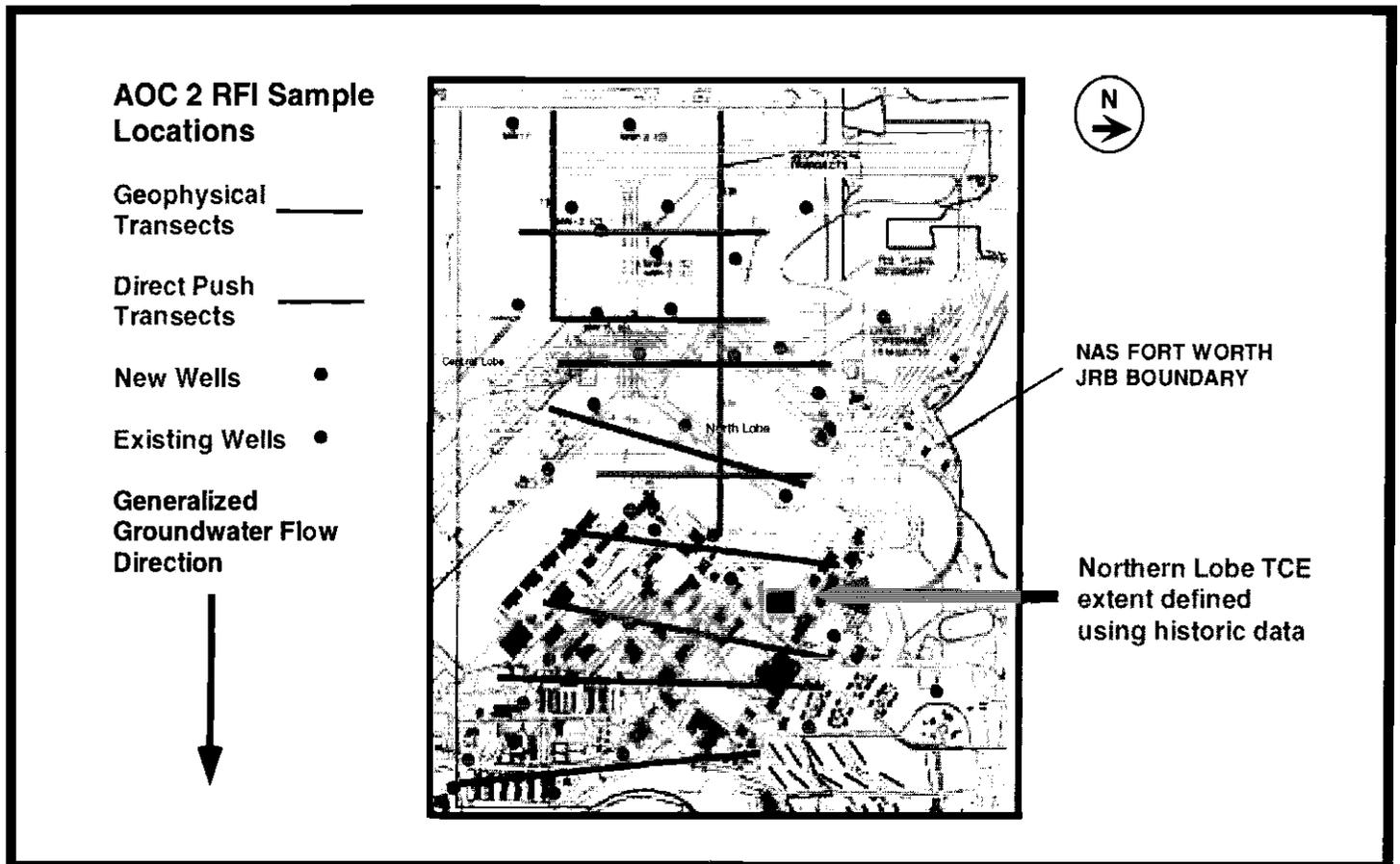
QUARTERLY BASE-WIDE MONITORING CONTINUES

The Air Force samples groundwater at locations base-wide four times a year to monitor the status of the contaminant plumes, and to provide information for establishing trends. The current program (called Base-wide Quarterly Groundwater Sampling and Analysis Program, or GSAP) has been in place since January 1997. Quarterly events occur in January, April, July, and October each year. The most recent round of quarterly monitoring was completed in January 1998. An annual report is being prepared that summarizes 1997 groundwater monitoring results.

AOC 4 SITE INVESTIGATION SCHEDULED FOR EARLY MARCH

AOC 4 includes the area of the former fuel hydrant system at the Base. The fuel hydrant system was used to transfer aviation fuel from the bulk storage facility to fuel hydrants located along the flightline. These hydrants were then used to fuel the aircraft. The hydrant system was removed from service in 1994. Contamination from the chemicals that comprise the aviation fuel was detected during the removal of the system. The Site Investigation (SI) for Area of Concern 4 (AOC 4) is scheduled to begin in March 1998. The first phase of the SI will consist of field work that includes:

- ◆ Installing an additional six monitoring wells to evaluate characteristics of groundwater beneath the site.
- ◆ Collecting nine direct-push soil samples and six auger soil borings to determine if the soil currently contains elevated concentrations of benzene, toluene, ethylbenzene, and xylene, commonly called BTEX; total petroleum hydrocarbons (TPH); and semi-volatile organic compounds (SVOC).



- ◆ Analyzing samples from four existing monitoring wells and the six new wells for BTEX, TPH and SVOCs. The results will be used to evaluate if past leaks from the tanks and/or piping pose a current public health or environmental risk.

In addition to the data collected during March 1998 field activities, selected data gathered by CH2M HILL during the AOC 2 RFI field effort and by HydroGeoLogic during the January 1998 Quarterly Base-wide GSAP event from sampling locations in the AOC 4 study area will be incorporated into the results obtained from the activities described above.

“The Air Force will receive all the AOC 4 analytical data about one month after the Field Investigation is complete,” explains Joe Dunkle, NAS Ft. Worth JRB IRP Manager. “We will use the results of the field investigation to prepare a Site Investigation Report. We expect the draft report to be done by the end of July 1998.”

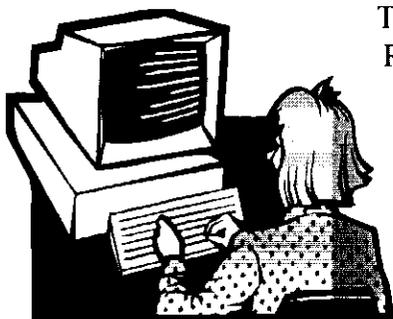
The Site Investigation Report will summarize the information gathered at AOC 4 and will recommend further remedial actions, if necessary, or support submission of a No Further Remedial Action petition to the TNRCC.

RCRA FACILITY INVESTIGATION OF LANDFILLS BEGINS

A RCRA Facility Investigation (RFI) began the first week of February 1998 at five former landfills. These landfills include SWMU 17 (Landfill No. 7), SWMU 27 (Landfill No. 10), SWMU 29 (Landfill No. 2), SWMU 30 (Landfill No. 9), and SWMU 62 (Landfill No. 6). The results of the RFI will determine if a source of potential contamination exists, and, if so, if the source has impacted the soil, groundwater, surface water or sediments at or near the site.

The results of the RFI also will be used to determine which TNRCC Risk Reduction Standard (RRS) is appropriate for closure of the units. If the values are all below background

THE ADMINISTRATIVE RECORD GOES DIGITAL



The Administrative Record and other documents for the NAS Fort Worth JRB Installation Restoration Program (IRP) soon will be available on CD-ROM at the lo-

cal Information Repositories.

Community members will be able to view more than 356 documents, such as work plans, sampling and analysis data, and the Community Relations Plan on CD-ROM. *In Magic*, a library management database, will allow readers to use keywords to search for documents of interest.

“The Air Force will provide the information repositories with a CD-ROM, which includes the documents and all software required to view them,” says Mr. Dunkle. “It is so much more convenient for both the library staff and the reader to have documents

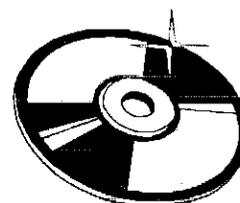
available on-line. Documents are easier to find and keep organized.”

As work progresses at the base and new documents become available, the Air Force will provide the library with additional CD-ROMs on a yearly basis.

Information Repositories have been established at the following locations:

White Settlement Public Library
8215 White Settlement Road
White Settlement, Texas 76108
(817) 367-0166

Central Fort Worth Public Library
300 Taylor Street
Fort Worth, Texas 76102
(817) 871-7701



values, the units will be closed under RRS No. 1. If the values exceed background but are below the "look-up" tables included as RRS No. 2, the site will be closed under RRS No. 2. If the concentrations detected exceed RRS No. 2, a baseline risk assessment will be conducted and potential options will be considered, including closure under RRS No. 3.

"The RFI is a multi-step process. Conducting field activities is one of the first steps in the process," says Mr. Dunkle. "A work plan for the landfill RFI was completed in February 1998. The work plan paved the way for the field activities phase of the landfills investigation."

Field activities for the landfill RFI include:

- Geophysical investigations at each landfill to define former landfill boundaries. These surveys will assist in finding optimal locations for soil borings and monitoring wells.
- Soil borings to evaluate the physical characteristics of the soil and waste. Some of the soil borings also will be used to collect soil samples for chemical analysis.
- Temporary piezometers will be installed at each landfill to evaluate groundwater flow patterns. The results will be used to finalize selection of permanent monitoring well locations.
- Monitoring wells will be installed to evaluate the nature of the groundwater beneath the landfills. These wells will be installed both upgradient and downgradient of the landfills. This will allow the Air Force to establish whether the landfills have had an effect on groundwater quality.
- Monitoring wells will be sampled three times while field activities are underway. Conducting three rounds of sampling will confirm the validity of the sampling results.

According to Mr. Dunkle, the results of the field activities for the landfills will be combined with information obtained from previous investigations to prepare the RFI report. The report is scheduled to be submitted in Fall 1998.

WELCOME NEW AFCEE STAFFER

Welcome Mike Dodyk to the AFCEE staff here at NAS Fort Worth JRB. As an AFCEE Field Engineer located on-base, Mike will coordinate base-level activities and support Joe Dunkle in San Antonio. Mike will serve as AFCEE's liaison with the 301st Air National Guard Unit and the U.S. Navy on-base. Mike also will be involved in awarding and managing AFCEE delivery orders, technical document review, and attending and supporting Restoration Advisory Board meetings.

Mike, who will assume his new duties in March 1998, previously worked with Air Force Materiel Command HQ at Wright Patterson Air Force Base in Dayton, Ohio.

OTHER NEWS & NOTES

Website Under Construction for Carswell/Air Force Plant 4 RAB



The Carswell/ Plant 4 Restoration Advisory Board is joining the thousands of organizations that offer information via computer screen and modem. In March the Air Force will issue a delivery order enabling a contractor to help RAB members develop a website for the group. Plans are to have the website up and running by May 1998.

"In the near future, you will be able to find out the date, time and location of the next RAB meeting, review the RAB's charter, or find recent documents not yet available in the information repository," says Mr. Dunkle. "We believe the website will stimulate interest in the RAB and environmental issues among community members."

The RAB website's address will be publicized in local newspapers when the site is on-line.

Compliance Plan

The Air Force is currently awaiting a draft Compliance Plan from the Texas Natural Resource Conservation Commission (TNRCC). The Compliance Plan is a follow-on document to the RCRA permit, which regulates the cleanup of contaminated sites on-base. The Air Force provided the TNRCC with a permit application on September 26, 1997. The TNRCC is now in the process of creating the Compliance Plan. Once the draft is released, there will be a public comment period. "This will be the chance for the public to have direct input on how the program will be run in the future," says Mr. Dunkle. "We encourage the public to be involved in the Compliance Plan process."

The TNRCC estimates that the Compliance Plan will become final sometime in the summer of 1998.

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