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FACT SHEET NUMBER 4 RESTORATION ADVISORY BOARD NAS FORT WORTH TX  
5/13/1999  
RESTORATION ADVISORY BOARD



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

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**ADMINISTRATIVE RECORD  
COVER SHEET**

AR File Number 484



## CARSWELL/PLANT 4 RESTORATION ADVISORY BOARD

Fact Sheet #4  
May 13, 1999

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### **NAS FORT WORTH JOINT RESERVE BASE (JRB) INSTALLATION RESTORATION PROGRAM (IRP)**

This is the fourth in a series of fact sheets focusing on the Installation Restoration Program (IRP) at the Naval Air Station Fort Worth Joint Reserve Base (NAS Fort Worth JRB). The NAS Fort Worth 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 the Department of Defense's (DoD) 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 efforts 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, the Air Force identified 68 solid waste management units (SWMU) and 19 Areas of Concern (AOC) for further study and cleanup, if necessary.

### **AIR FORCE PLANT 4 LONG-TERM MONITORING**

Quarterly monitoring activities were initiated in October 1991 at AFP 4 and were changed to semi-annual monitoring events in April 1998. The current AFP 4 monitoring is conducted at 41 monitoring wells, 9 surface water sites, 3 sediment sites, and 1 city water production well on AFP 4 property, NAS Fort Worth JRB property, and in the community of White Settlement. Six new monitoring wells will be installed for inclusion in the semi-annual monitoring in October 1999.

Groundwater and surface water at AFP 4 is monitored for trichloroethylene (TCE), dichloroethene (DCE), vinyl chloride, and selected metals. The primary contaminants of concern at AFP 4 are chlorinated solvents, such as TCE and its degradation products. Sediments are monitored for polychlorinated biphenyls.

### **NAS FORT WORTH LONG-TERM MONITORING**

A basewide groundwater sampling and analysis plan (GSAP) was initiated for NAS Fort Worth JRB in April 1995 to address groundwater contamination associated with various Solid Waste Management Units (SWMU) and Areas of Concern (AOC) identified on the base. Groundwater is sampled to monitor volatile organic compounds (VOC), including chlorinated solvents and metals. The GSAP monitoring, except for two units that currently have approved or proposed

closure plans, is not presently a regulatory requirement. Consequently, the NAS Fort Worth Long-Term Monitoring (LTM) is a voluntary action on the part of the U.S. Air Force to conduct basewide monitoring at 62 well locations.

## **LONG-TERM MONITORING OBJECTIVES**

The AFP 4 LTM objectives are to monitor for contaminants associated with previously identified sites in order to provide data necessary to recognize if additional remedial actions are necessary to protect public health and the environment. Three water supplies used by the public have been identified that potentially could be affected by AFP 4 contaminants: the Paluxy Aquifer, Lake Worth, and the West Fork of the Trinity River. Long-Term Monitoring will evaluate water quality in these water supplies directly, as well as the potential pathways by which contaminants could reach these water supplies. Remediation goals have been established in the 1996 Record of Decision (ROD) that, when achieved, will ensure that AFP 4 contaminants do not reach the public water supplies identified.

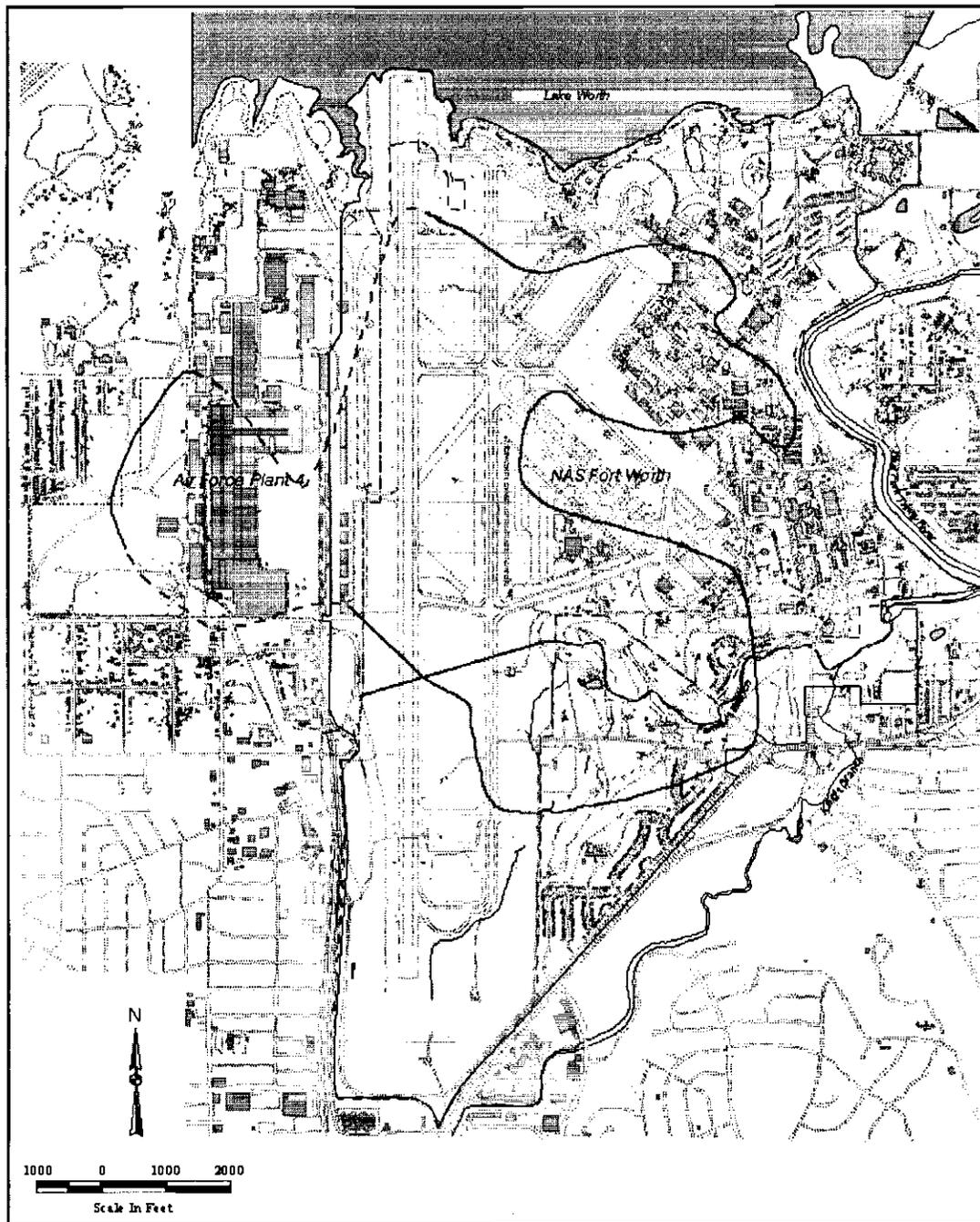
Monitoring objectives at NAS Fort Worth JRB include the following:

- **Critical Groundwater Exposure Pathways Evaluation.** Collect data to investigate (1) off-site exposure to groundwater sources used for drinking water and (2) on-site and off-site exposure to surface water bodies.
- **Current Regulatory Requirements.** Conduct sampling to fulfill current LTM requirements associated with the closure of SWMUs and AOCs.
- **Additional Source and Plume Delineation.** Define horizontal or vertical migration of contamination associated with miscellaneous hot spots and potential source areas where data are not currently available.
- **Natural Attenuation Monitoring.** Collect data to demonstrate that natural attenuation of volatile organic compounds is occurring.

Monitoring rounds are developed based on results of the previous quarter and the overall remediation strategy for NAS Fort Worth JRB.

## **MONITORING RESULTS**

Concentrations of TCE range from below laboratory detection limits to 1,230 mg/L within the Terrace Alluvium on the AFP 4 site. On the NAS Fort Worth site, concentrations of TCE range from below laboratory detection limits to 3.5 mg/L approximately 2,000 feet east/southeast of AFP 4. Overall, concentrations of TCE at both sites have decreased over the last two years. The only area not fully delineated is the area near the intersection of White Settlement and Roaring Springs Roads, at the entrance to the golf course. TCE concentrations in this area during January 1999 were 0.012 mg/L. Additional monitoring wells east of this area are scheduled for installation this summer. These wells will ensure that no off-site contamination is occurring.



The red line in the map above indicates the extent of dissolved TCE in groundwater at AFP 4/NAS Fort Worth. TCE was not detected in wells outside of this red line above the laboratory detection limit. The dotted red line indicates areas where concentrations are inferred.

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**FOR MORE INFORMATION**

*If you would like more information about Long-Term Monitoring, contact Michael Dodyk, HQ AFCEE, at (817) 732-9734 or via e-mail at [michael.dodyk@HQAFCEE.brooks.af.mil](mailto:michael.dodyk@HQAFCEE.brooks.af.mil).*

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**FINAL PAGE**

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**FINAL PAGE**