



## **CARSWELL/PLANT 4 RESTORATION ADVISORY BOARD**

**Fact Sheet #5  
August 12, 1999**

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

This is the fifth 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 RCRA, the Air Force identified 68 solid waste management units (SWMU) and 19 areas of concern (AOC) for further study and cleanup, if necessary.

### **CARSWELL ON-BASE**

### **SOLID WASTE MANAGEMENT UNITS 19, 20, 21, 49, 50, 53 AND AREAS OF CONCERN 17, 18, and 19 INVESTIGATION**

Site reconnaissance was completed in July for the following areas: Fire Training Area No. 2 (SWMU 19), an aboveground waste fuel storage tank (SWMU 20), an underground storage tank (SWMU 21), two aircraft washing areas (SWMUs 49 and 50), the storm water drainage system (SWMU 53), a landfill (AOC 17), and two additional fire training areas (AOCs 18 and 19). Work plans for the investigation of these sites will be submitted to AFCEE in the fall of 1999.

### **BASEWIDE GROUNDWATER MONITORING CONTINUES**

The Air Force samples groundwater at basewide locations four times a year to monitor the status of the contaminant plumes and to provide information for establishing trends. The current program (called Basewide Quarterly Groundwater Sampling and Analysis Program, or GSAP) has been in place since April 1995. Quarterly events occur in January, April, July, and October of each year. The most recent round of quarterly monitoring was completed last month. The results of the April 1999 Event were submitted to AFCEE in July and preparations of the report for the July 1999 Event are under way.

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## **TCE PLUME INVESTIGATION**

As part of the investigation of the southern lobe of the trichloroethene (TCE) plume, seven wells (four recovery and three monitoring wells) were installed off-base near the former Carswell AFB southwest boundary in June. The first of three rounds of groundwater samples to determine the nature and extent of potential groundwater contamination were collected from these wells in July. Two additional recovery wells are scheduled for installation in August and will be sampled following their development.

## **TCE EXTRACTION SYSTEM UPGRADE**

A groundwater extraction system, designed to intercept TCE contaminated groundwater and prevent the plume from migrating beyond the Carswell AFB boundary, was installed at the Carswell Golf Course area where White Settlement Road meets the flightline area of NAS Fort Worth JRB. The pump-and-treat system became operational in December 1993; however, it was shut down in August of 1998 until repairs could be implemented. Upgrades are nearing completion, and the system will be operating by the end of August.

## **RCRA FACILITY INVESTIGATION OF LANDFILLS CONTINUES**

RCRA Facility Investigations (RFI) continue at seven former landfills, also known as SWMUs. These landfills include Landfill No. 7 (SWMU 17), Landfill No. 3 (SWMU 26), Landfill No. 10 (SWMU 27), Landfill No. 1 (SWMU 28), Landfill No. 2 (SWMU 29), Landfill No. 9 (SWMU 30), and Landfill No. 6 (SWMU 62). Soil and groundwater samples were collected during June and July from Landfills 1, 2, and 9. The next round of groundwater samples from Landfill 9 will be collected in August. The results of the RFI will determine if a source of potential contamination exists and if the source has impacted the soil, groundwater, surface water, or sediments at or near the site. A response to comments from the May meeting with the Texas Natural Resource Conservation Commission (TNRCC) is being prepared and the next meeting with the regulators, to discuss the status of the landfills and field efforts, is scheduled for August.

## **WASTE ACCUMULATION AREA INVESTIGATION FIELD WORK**

The initial field investigation of 16 Waste Accumulation Areas (WAA) was completed in June. Direct Push Technology was used to collect soil samples from approximately 50 soil borings, which were sampled every 5 feet from ground surface to the top of the water table. If the results of the soil investigations show evidence of a release of hazardous constituents to the environment, a downgradient monitoring well will be installed in order to assess the impact to groundwater, if any. The results of the entire investigation will be compiled in an RFI report.

## **UNDERGROUND STORAGE TANK INVESTIGATION FIELD WORK**

Field work for the initial investigation of 12 underground storage tanks (UST) was completed in June. The work included conducting a geophysical and soil gas survey, collecting groundwater samples from previously installed monitoring wells, and advancing approximately 50 borings using Direct Push Technology to collect soil samples from the former UST sites. The results of the investigation will be used to determine if an additional investigation is necessary to determine the nature and extent of any potential contamination from the USTs. When delineation of the contamination is complete at each UST site, the results of the investigation will be compiled and presented in a Site Investigation (SI) report.

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## **AREA OF CONCERN 4 SITE INVESTIGATION REPORT**

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 then were used to fuel the aircraft. The fuel hydrant system was removed from service in 1994, and during the removal of the system, contamination from the chemicals that comprise aviation fuel was detected. The SI for AOC 4 was completed in January and the Draft SI Report and Assessment Report Form submitted to the TNRCC in August.

## **ONLINE DOCUMENTS FOR CARSWELL**

All documents published in the Carswell Administrative Record/Information Repository can be obtained from the web site hosted by HydroGeoLogic, Inc., for the Carswell AFB Restoration Advisory Board. The address is [nasfw.hgl.com](http://nasfw.hgl.com).

### **CARSWELL OFF-BASE**

## **FIELD EVENTS**

The remaining portions of the French Underdrain outside the base fence were removed at the Unnamed Stream site in June 1999. Results of the confirmation samples are pending.

## **RCRA FACILITY INVESTIGATION OF LANDFILLS**

The RFI continue at four former landfills. These include Landfills No. 4, 5, 8, and Waste Pile 7. The results of the RFI will determine if a source of potential contamination exists and will delineate any impacted soil, groundwater, surface water, or sediments at or near each 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 all values are below background or RRS 1, then a request will be forwarded to the TNRCC for no further action. If the sites have constituents above background concentrations or RRS 1, then additional measures may be required prior to requesting site closures.

## **SANITARY SEWER SYSTEM RFI**

Funding has been requested to continue Phase II of this RFI. Phase II will include soil and groundwater sampling and the installation of eight new monitoring wells to determine the nature and extent of contamination. The results of the RFI will be used to determine which TNRCC RRS is appropriate for closure of the unit. If the values are all below background concentrations or RRS 1, then a closure with no further action will be requested. If the site has chemicals above background concentrations or RRS 1, then corrective measures may be necessary prior to requesting site closure.

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## **RAILROAD RIGHT-OF-WAY AND RECREATIONAL VEHICLE (RV) FAMILY CAMPING (FAM CAMP) AREA**

A closure letter was received from the TNRCC. No further action is required at this site.

## **OFFSITE WEAPON STORAGE AREA**

Limited soil excavation occurred July 26-30, 1999. Results of confirmation samples are pending. The results of these samples will determine if further remedial action is necessary or if a request for site closure is appropriate.

## **BUREAU OF PRISONS HOSPITAL**

The decision document for the property transfer is currently being prepared. The property transfer is scheduled to be completed in the fall of 1999.

## **CARSWELL BUSINESS PARK**

The visual site inspections for the Finding of Suitability to Transfer (FOST) was completed in June 1999. The property transfer is scheduled to be completed in the fall of 1999.

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## **FOR MORE INFORMATION**

*If you would like more information, please see our web site at [nasfw.hgl.com](http://nasfw.hgl.com) or contact the following individuals.*

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