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RESTORATION ADVISORY BOARD



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

**ADMINISTRATIVE RECORD
COVER SHEET**

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CARSWELL/PLANT 4 RESTORATION ADVISORY BOARD

Fact Sheet #7
February 10, 2000

NAS FORT WORTH JOINT RESERVE BASE INSTALLATION RESTORATION PROGRAM

This is the seventh 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 (AFB), 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 RCRA, the Air Force identified 68 solid waste management units (SWMU) and 19 areas of concern (AOC) for further study and clean up, 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: former Fire Training Area No. 2 (SWMU 19), a former removed aboveground waste fuel storage tank (SWMU 20), a former removed underground storage tank (SWMU 21), two former aircraft washing areas (SWMUs 49 and 50), the storm water drainage system (SWMU 53), a former landfill (AOC 17), and two additional former fire training areas (AOCs 18 and 19). Final work plans for the investigation of SWMUs 19, 20, 21, and 53 and AOCs 17, 18, and 19 are currently being prepared for submission to the Texas Natural Resource Conservation Commission (TNRCC). A closure report currently is being prepared for SWMU 49, and separate work plans are being prepared for the removal of SWMU 50. These are scheduled to be submitted to AFCEE next month.

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 in October 1999. The results of the April 1999 Event were submitted to the TNRCC in October 1999, and results of the July 1999 Event were submitted to the TNRCC in November 1999.

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). The results of the RFIs 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 each landfill. Initial results for Landfill 10 indicate that a release from this unit has not occurred. A Draft Final RFI report with recommendations for closure of Landfill 10 with no further action is being prepared and will be submitted to TNRCC later this month. Groundwater samples were collected at Landfills 1 and 9 in October and November 1999. Based on a September 1999 presentation to the TNRCC and the October/November groundwater data, the Final Phase III RFI Work Plan currently is being prepared for submission to the TNRCC in March. The field work proposed in the final work plan currently is scheduled to begin in late spring 2000.

WASTE ACCUMULATION AREA INVESTIGATION FIELD WORK

The initial field investigation of 16 Waste Accumulation Areas (WAA) was completed in June 1999. 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. Based on the results of the initial investigation, 9 of the 16 WAAs require additional investigation before closure can be requested. A Draft Phase II RFI presenting the results of the initial investigation and proposing plans for additional soil delineation and groundwater sampling at the 9 WAAs will be submitted to AFCEE this month. An RFI report currently is being prepared for the remaining 7 WAAs with recommendations for closure. This RFI report will be submitted to AFCEE for review this month.

UNDERGROUND STORAGE TANK PROGRAM

A meeting was held with AFCEE and the TNRCC/Petroleum Storage Tank (PST) division in December 1999 to discuss the status of the Underground Storage Tank (UST) program at NAS Fort Worth JRB. The results of the initial investigation for 12 UST sites were presented along with proposed plans for additional soil delineation and groundwater sampling at several of the sites. It was determined that five of the USTs will not require further investigation, and the remaining seven USTs will require additional delineation of possible contamination. The five UST sites not requiring further investigation will be recommended as no further action sites. When delineation is complete at each remaining UST site, the results for all 12 USTs will be compiled and presented in a Limited Site Assessment (LSA) report.

The Final Site Closure Request form for AOC 1 was submitted to the TNRCC/PST division in November 1999 for review.

A response to the TNRCC/PST request for additional information regarding the Site Closure Request forms for USTs at Building 1140 and Building 4210 was submitted to the TNRCC/PST division in November 1999 for reconsideration of closure.

One year of groundwater monitoring was completed in October 1999 at AOC 4. AOC 4 includes the area of the former fuel hydrant system at the base. The results for the four quarters of groundwater monitoring and weekly product removal will be presented in a Groundwater Monitoring Report and is scheduled to be submitted to AFCEE this month. In this report, the site will be re-evaluated for closure using the Plan A Early Exit Criteria, and either a site closure report will be submitted for regulatory review or further actions will be recommended.

CORRECTIVE MEASURES PROPOSED FOR AREA OF CONCERN 13

Site investigations were completed in 1998 for AOC 13. AOC 13 consists of an oil/water separator (OWS) and an associated UST at Building 1145, the base hobby shop. Results of the site investigations revealed and delineated a petroleum plume beneath the OWS system. The OWS and UST will be removed to eliminate the source of the contamination and to expedite closure of AOC 13. Following removal, the OWS and UST will be replaced with a new system. Design documents to remove and replace the system were submitted to AFCEE and the Navy in October 1999, and field work is currently scheduled to begin next month.

GROUNDWATER MONITORING WELL ABANDONMENT AND REPAIR

More than 300 monitoring wells exist at NAS Fort Worth JRB. Well maintenance is essential to prevent vertical migration of contamination and to ensure the integrity of the groundwater samples collected from each monitoring well. An inspection of the monitoring wells at NAS Fort Worth JRB was conducted in June 1999, and minor repairs were performed at that time. In November 1999, AFCEE comments were incorporated and the Draft Work Plans for Monitoring Well Abandonment and Repair were submitted for regulatory review last month. The work plans provide a list of the monitoring wells to be abandoned or repaired, the rationale for selecting these wells; and a discussion of the regulatory requirements. Under these work plans, 12 monitoring wells are scheduled for abandonment and 5 monitoring wells are scheduled for repair at NAS Fort Worth JRB.

CLOSURE REQUESTED AT SWMU 7 AND SWMU 8

A Draft Technical Memorandum was submitted in October 1999 for regulatory review to provide justification for closure at SWMU 7 and SWMU 8. The Technical Memorandum provides descriptions and operational histories of SWMU 7 (the Building 1628 OWS) and SWMU 8 (an associated UST), descriptions of the wastes handled, and summaries of the initial assessments and investigations focused on recognizing any potential contamination resulting from the sites. SWMU 7 and SWMU 8 were recommended for closure based on the conclusion that a release of hazardous constituents from either site did not occur. Previous assessments and investigations showed no evidence of contamination of the soil or groundwater from either SWMU. Regulatory comments on the Draft Technical Memorandum were received in November 1999. A Final Closure Report and responses to comments were submitted to the TNRCC in January 2000.

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.

CARSWELL OFF-BASE

RCRA FACILITY INVESTIGATION OF LANDFILLS

The RFI continues at 4 former landfills. These landfills include Landfills No. 4, 5, 8, and Waste Pile 07. 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. Further soil and monitoring well sampling occurred in January. Results of this sampling event will be presented to the regulators in mid-February.

SANITARY SEWER SYSTEM RFI

Funding was received 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, then a closure with no further action will be requested. If the site has chemicals above background concentrations, then corrective measures may be necessary prior to requesting site closure. The work plan for further action is due this month and work will begin in spring 2000.

TEMPORARY STORAGE DISPOSAL FACILITY (TSDF) BUILDING 1347

State approval for the clean closure of this building was received in November. The building has since been transferred to the U.S. Navy and currently is being used as a less than 90-day storage facility.

OFFSITE WEAPON STORAGE AREA

The final soil excavation occurred in December. Results of confirmation samples are pending; however initial data indicates that the site has met all state requirements. The final closure report will be submitted to the regulators in spring 2000.

GROUNDS MAINTENANCE YARD AND AEROSPACE MUSEUM

Further sampling occurred in December to complete delineation of Nickel and other metals. Results of these samples are pending. Submission of closure documents is planned for late spring.

BUREAU OF PRISONS HOSPITAL

AFBCA is awaiting Underground Storage Tank Closure letters from TNRCC to complete the Finding of Suitability to Transfer (FOST). The property transfer is scheduled to be completed this summer.

CARSWELL BUSINESS PARK

The FOST and Supplemental Environmental Baseline Survey (SEBS) were signed on December 20, 1999. The property transfer occurred in December 1999.

AIR FORCE PLANT 4

TCE PLUME INVESTIGATION

As part of the investigation of the southern lobe of the trichloroethene (TCE) plume, seven monitoring wells were installed off-base near the former Carswell AFB southwest boundary in June 1999 with two additional monitoring wells installed in August 1999. The last of three rounds of groundwater samples were collected from these wells in November 1999 to determine the nature and extent of potential groundwater contamination. TCE concentrations in groundwater collected during the first round of sampling from the new wells range from below detection limits to 42 $\mu\text{g/L}$. With this new data, the extent of the plume has been further defined along the eastern edge of the golf course near Route 183 and White Settlement Road.

GROUNDWATER TREATMENT 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 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 1998 until repairs could be implemented. Upgrades were completed, and the system was placed back in operation from September 13 through December 20, 1999. A transition between operating contractors occurred, and the system was restarted on January 11, 2000. Currently, all TCE and dichloroethene (DCE) permit discharge limitations are being met.

FOR MORE INFORMATION

If you would like more information, please see our web site at nasfw.hgl.com or contact the following individuals.

Carswell On-Base: Michael Dodyk, HQ AFCEE, at (817) 782-7167 or via e-mail at Mike.Dodyk@fwh.afres.af.mil or Don Ficklen, HQ AFCEE, at (210) 536-5290 or via e-mail at Holmes.Ficklen@HQAFCEE.brooks.af.mil

AFP 4: George Walters, the Aeronautical Systems Center, Wright-Patterson Air Force Base, OH, at 1-800-982-7248 Ext. 416 or via e-mail at George.Walters@wpafb.af.mil

Carswell Off-Base: Rafael Vazquez or Alvin Brown, AFBCA Regional Operating Location-Bergstrom, at (877) 386-5429 or via e-mail at rvazquez@afbda1.hq.af.mil or abrown@afbda1.hq.af.mil

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