

## Carswell/Plant 4



# AREA OF CONCERN 4 - FORMER FUEL HYDRANT SYSTEM DRAFT SITE INVESTIGATION REPORT AND TNRCC ASSESSMENT REPORTING FORM

Restoration Advisory Board Executive Summary #13 • November 4, 1999

## INTRODUCTION

Naval Air Station Fort Worth Joint Reserve Base (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 through the Installation Restoration Program (IRP). The IRP is the primary mechanism of the Department of Defense 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), the Resource Conservation and Recovery Act (RCRA), and other applicable Federal and state regulations. The IRP at NAS Fort Worth JRB is being conducted through the combined efforts of the Air Force Center for Environmental Excellence (AFCEE) and the Air Force Base Conversion Agency (AFBCA).

## AOC 4 SITE INVESTIGATION REPORT AND TNRCC ASSESSMENT REPORTING FORM

A Draft Site Investigation Report and a Texas Natural Resource Conservation Commission (TNRCC) Assessment Report Form was submitted to the TNRCC Leaking Petroleum Storage Tank (LPST) Division for Area of Concern 4 (AOC 4). AOC 4 is identified as the former fuel hydrant system (FHS) at NAS Fort Worth JRB. The former FHS was composed of five

pumping stations along with approximately 20,000 feet of piping that connected each pumping station to the Bulk Fuel Storage Area. Each pumping station utilized six 25,000-gallon Underground Storage Tanks (UST) for storage of Jet Propulsion fuel No. 4 (JP-4). During the period from July 1994 until May 1995 the USTs were removed from the ground and the associated piping was abandoned in place. During their removal, the tank systems at four of the five stations were found to have been leaking and were designated with LPST site numbers 108711, 108712, 108713, and 104484 by the TNRCC. The tank system at the fifth station was not designated as leaking and was identified as Building 4153. The four LPST sites at the FHS were investigated and reported as a single UST system.

In an effort to obtain closure of the FHS under the TNRCC's LPST Plan A Risk Evaluation, site investigation activities included a review of facility information, performance of a site receptor survey, and collection of soil and groundwater samples. In addition, the previous TNRCC site conceptual model was refined using data collected during this site investigation.

Results of the site investigation indicated evidence of petroleum contamination in the soil and groundwater above the Plan A Target Concentrations. As a result, the soil and groundwater at the site were evaluated using the Plan A Early Exit Criteria process. This evaluation resulted in the following three conclusions: 1) Contaminants in the

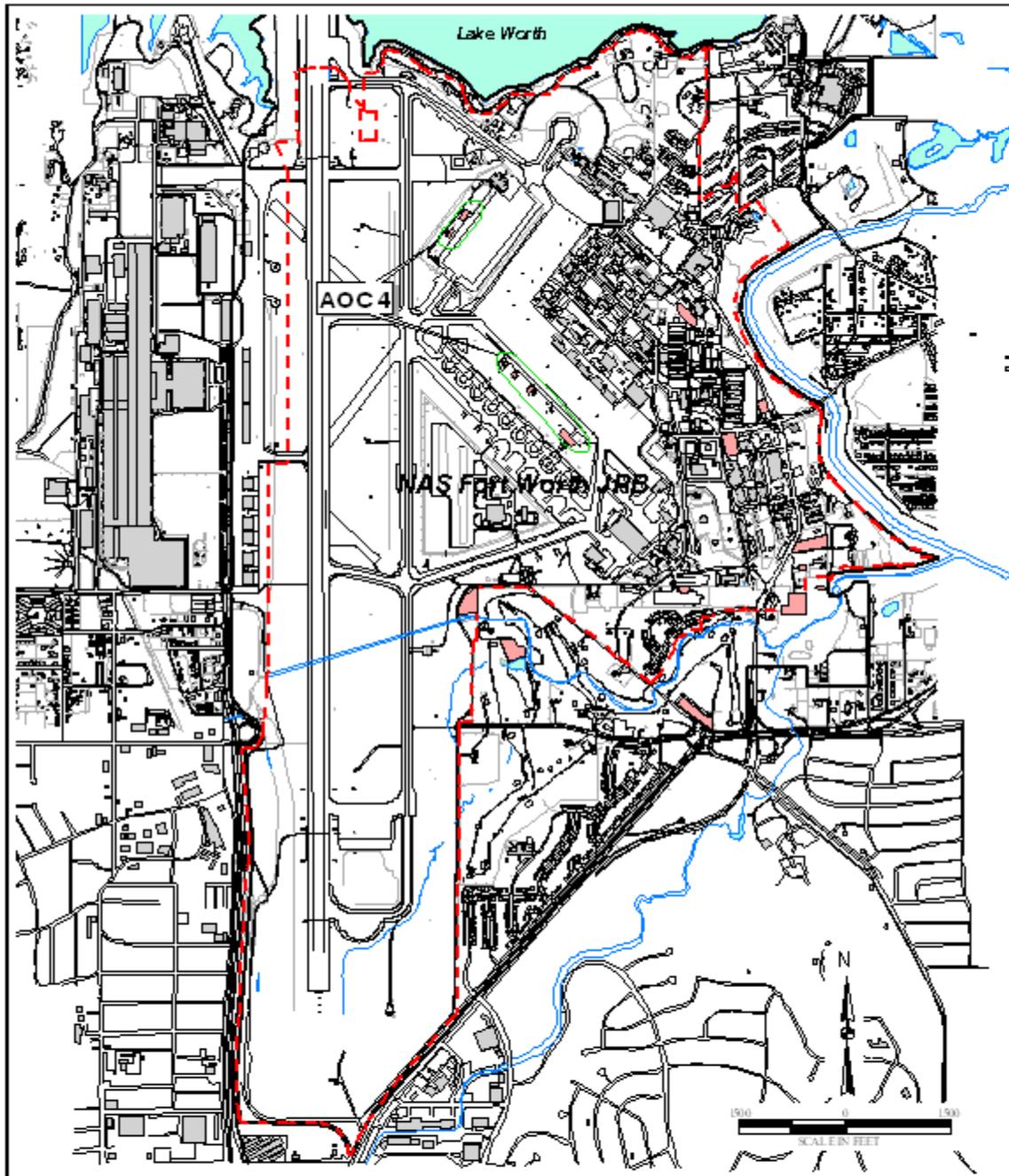
soils at the site do not have a potential for future human exposure; 2) Measurable Light Non-Aqueous Phase Liquid (LNAPL) exists in two monitoring wells at the site; and 3) Contaminants in groundwater show elevated concentrations that appear to be decreasing over time.

To pursue closure at AOC 4 using the Plan A Early Exit Criteria process, measurable LNAPL must be eliminated completely and groundwater must show contaminant plume stability. Proposed activities for AOC 4 include the continued weekly LNAPL removal from two monitoring wells and the initiation of quarterly groundwater monitoring to verify stability of the contaminant plumes. After 1 year of monitoring, the site will be evaluated for closure using the Plan A Early Exit Criteria process. At that time either a site closure request will be submitted to the TNRCC or further action will be recommended in order to meet closure requirements.

### For More Information:

*If you would like more information, please see our website at [nasfw.hgl.com](http://nasfw.hgl.com) or contact Michael Dodyk, HQ AFCEE, at (817) 782-7167 or via e-mail at [Mike.Dodyk@fwh.afres.af.mil](mailto:Mike.Dodyk@fwh.afres.af.mil).*

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**Legend**

- - - NAS Fort Worth JRB Boundary
- Former Carswell AFB Boundary
- Area of Concern (AOC)

**Figure 1**

**Location of  
AOC 4**