

Carswell/Plant 4



FINAL RCRA FACILITY INVESTIGATION REPORT AND SITE CLOSURE REQUEST FOR AREA OF CONCERN 13

Restoration Advisory Board Executive Summary #32 • August 9, 2001

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).

BACKGROUND

AOC 13 is identified as the Auto Hobby Shop (Building 1145) Oil Water Separator (OWS) and is located in the eastern portion of the base near the NAS Fort Worth JRB main gate on Hercules Road (Figure 1). The OWS and underground storage tank (UST) system were installed in 1989 and were in service until May 2000. The site was assigned Solid Waste Registration number 65004 by the TNRCC.

The Hobby Shop OWS and associated UST were located under pavement adjacent to the back of Building 1145 and received waste engine oil,

lubricating oil, brake fluid, grease, and other petroleum by-products. The majority of historical contamination releases have occurred as a result of leaking connection pipes leading from the Auto Hobby Shop to the OWS.

AOC 13 has been the subject of multiple investigation activities from 1994 through 2000. This AOC was investigated initially in 1994 and also was sampled again in 1997 and 1998. A groundwater monitoring well installed near the OWS/UST in 1997 was found to have a floating petroleum product layer. This floating product layer was removed by bailing on a weekly basis from August 1998 until this well was abandoned during the interim remedial action conducted in May 2000. The groundwater in the vicinity of AOC 13 was sampled during quarterly basewide sampling events in 1999.

Contaminants detected in water and soil at AOC 13 during RFI activities included metals and volatile organic compounds (VOC) and semivolatile organic compounds (SVOC) associated with fuels and petroleum products.

2000 SITE ACTIVITIES

In May and June 2000, the Building 1145 OWS, UST, and associated contaminated media were removed. Approximately 300 cubic yards of soil and 2,600 gallons of contaminated water were removed during the excavation. A new OWS unit was installed and the excavation was back filled with crushed stone and paved. The new OWS is a self-contained unit; therefore, a new UST was not installed.

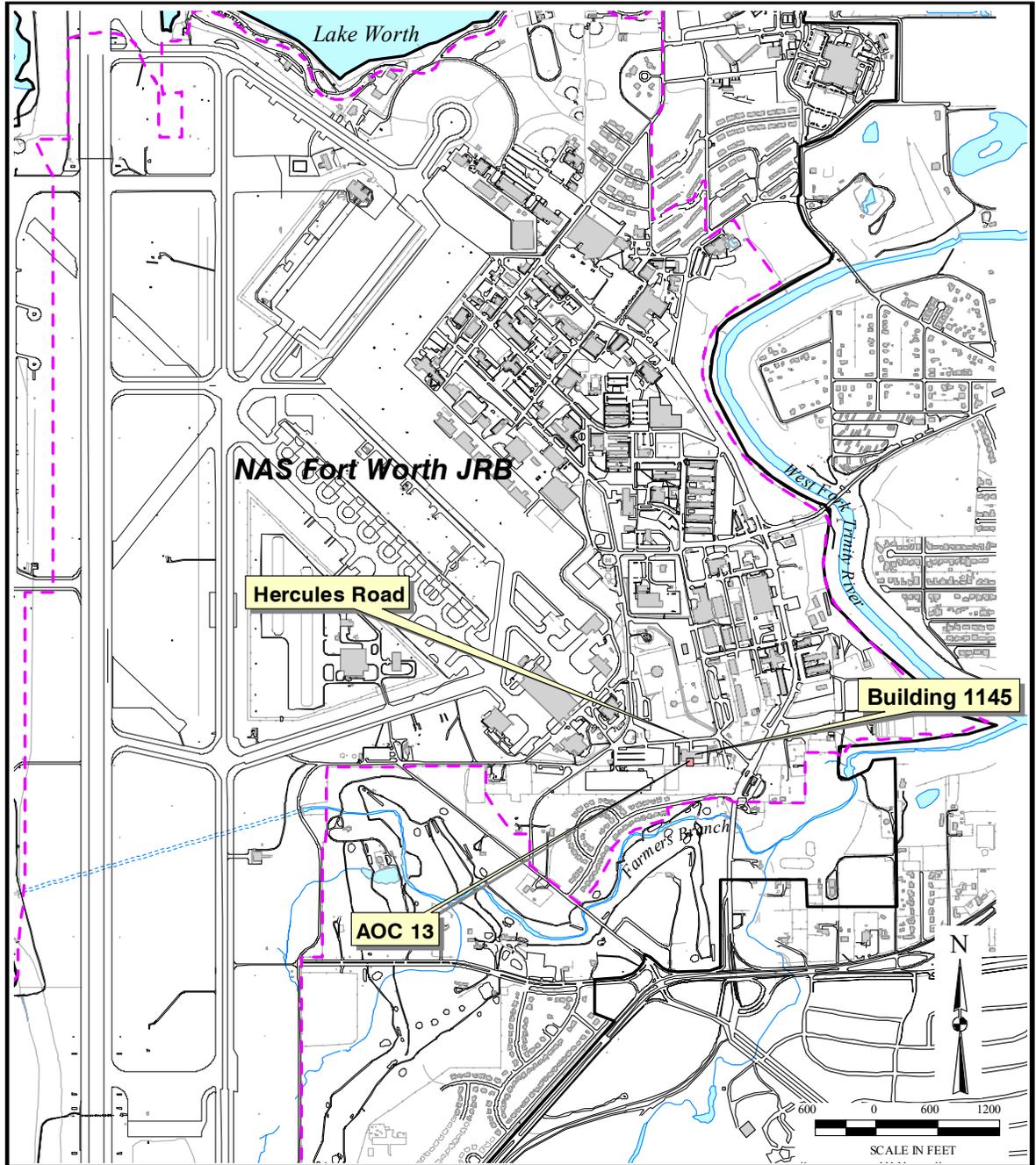
After the removal action was complete, but prior to closing the excavation, soil samples were collected from the excavation that confirmed that all contaminated source material had been removed successfully. A data review indicated that although most contamination at the site was characterized, some data gaps existed. To address these data gaps, the groundwater around AOC 13 was sampled in October 2000. Additional soil samples were collected in December 2000 to delineate existing contamination and to confirm suspect results from previous investigations.

FINAL RFI REPORT

The Final RCRA Facility Investigation (RFI) Report for AOC 13 presents all of the data previously collected at AOC 13 from 1994 through 2000. The data show low contaminant concentrations near the former OWS/UST, with concentrations decreasing with distance. Several contaminants detected in historical samples were not confirmed by more recent sampling. The source of the contamination has been removed and, based on the recent sampling results, the site is being recommended for closure.

For More Information:

If you would like more information, please see our website at <http://www.afcee.brooks.af.mil/er/carswell/nasfw/> or contact Michael Dodyk, HQ AFCEE, at (817) 782-7167 or via e-mail at Mike.Dodyk@carswell.af.mil.



Filename: X:\AFC001\16bdc\Report\AOC_13_location.apr
 Project: AFC001-16BDC
 Created: 07/02/01 cfamer
 Revised: 07/10/01 asp
 Source: HydroGeologic, Inc—GIS Database



Legend

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

Figure 1

**Location of AOC 13
 NAS Fort Worth JRB, Texas**