



## Carswell/Plant 4

# FINAL RCRA Facility Investigation Report SWMU 49 / Former Aircraft Washing Area No. 1

Restoration Advisory Board Executive Summary #42 • November 13, 2003

## INTRODUCTION

Naval Air Station Fort Worth Joint Reserve Base (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 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, 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 and the Air Force Real Property Agency.

## PROJECT BACKGROUND

A RCRA Facility Investigation (RFI) was conducted at solid waste management unit (SWMU) 49, also known as the Former Aircraft Washing Area No. 1 (see Figure 1 for SWMU location). This unit served as an aircraft washing area and drain collecting wastewater from cleaning and maintenance activities from military aircraft. SWMU 49 encompassed an area 150 feet wide by

300 feet long. The perimeter was bordered by a 6-inch high concrete berm with openings on either side for aircraft to enter and exit. The area within the berms was paved with asphalt and sloped toward a central drain measuring 2 feet by 2 feet. The drain discharged to an oil water separator where any petroleum products were separated. The remaining discharge was then directed to the West Fork Trinity River. Based on aerial photographs, SWMU 49 was operational from 1955 until the early 1990s. The area was then repaved with reinforced concrete and is currently used for parking military aircraft. The RFI at SWMU 49 is required by the base's RCRA hazardous waste permit (HW-50289) that was issued by the Texas Commission on Environmental Quality (TCEQ).

## RCRA FACILITY INVESTIGATION STRATEGY

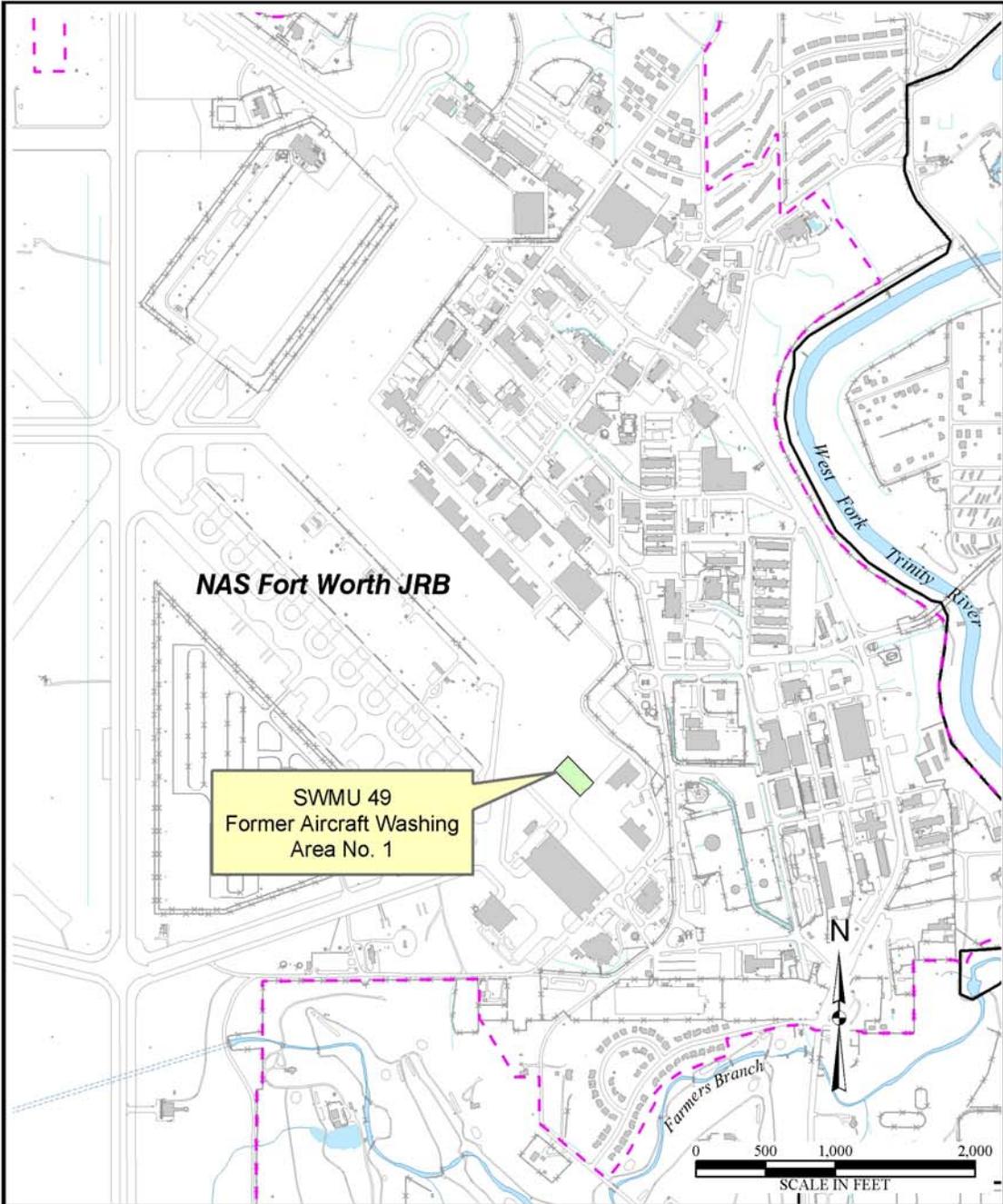
The goal of the RFI was to obtain closure of the site under the TCEQ Risk Reduction Standard (RRS) program. Consequently, an RFI sampling plan was designed to determine if a release from SWMU 49 had occurred and, if contamination was encountered, delineate the nature and extent of the contamination. Essential information consisting of soil lithology and an assessment of potential contaminant impacts on the quality of soil and groundwater within and around SWMU 49 was obtained. RFI activities at

SWMU 49 were initiated in January 2002 and concluded in January 2003. These activities included the installation of 7 soil borings and 4 monitoring wells and the analysis of 36 soil samples and 15 groundwater samples.

Analytical results indicate that SWMU 49 may have had an impact on the surrounding soil and groundwater. Therefore, this RFI Report recommended closure under RRS 2 for SWMU 49. Analytes detected in soil and included in the RRS 2 deed certification included ethylbenzene; m,p-xylenes; o-xylene; toluene; fluoranthene; naphthalene; phenanthrene; 1,2-dichlorobenzene; and 2-methylnaphthalene. Analytes detected in groundwater and included in the RRS 2 deed certification include benzene, ethylbenzene, and o-xylene. The Final SWMU 49 RFI Report recommending closure under RRS 2 was submitted to the TCEQ for review in September 2003.

### 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) 782-7169 or via e-mail at [Mike.Dodyk@carswell.af.mil](mailto:Mike.Dodyk@carswell.af.mil).*



Map Source: HydroGeoLogic, Inc. GIS Database  
 Date: 10/17/03 CF  
 X:/AFC002/NASFW/TO3/Maps  
 /Exec\_Summary\_SWMU\_49/swmu\_locations.mxd



| Legend |                                |
|--------|--------------------------------|
|        | NAS Fort Worth JRB Boundary    |
|        | Former Carswell AFB Boundary   |
|        | Solid Waste Management Unit 49 |

**Figure 1**  
  
**Location of SWMU 49**  
**NAS Fort Worth JRB, Texas**