



# Carswell/Plant 4

## LANDFILL 10 – FINAL RCRA FACILITY INVESTIGATION REPORT

Restoration Advisory Board Executive Summary #16 • May 11, 2000

### 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

The U.S. Air Force was requested to investigate Landfill 10, also known as Solid Waste Management Unit (SWMU) 27, by the Texas Natural Resource Conservation Commission (TNRCC) in a letter dated March 2, 1995. The TNRCC requested that a RCRA Facility Investigation (RFI) be conducted at Landfill 10 to determine whether any hazardous constituents

listed in 40 Code of Federal Regulations (CFR), Part 264, Appendix IX have been released into the environment.

### SITE DESCRIPTION

Landfill 10 is situated on the highest point of NAS Fort Worth JRB between the elevations of 664 and 684 feet above mean sea level. The site encompasses approximately 4.5 acres of land located in the southwestern portion of NAS Fort Worth JRB (Figure 1). The landfill consists of an open trench approximately 15 feet deep by 20 feet wide and 400 feet long. The trench typically contains approximately 4 to 5 feet of standing water during the winter months and dries out during the summer months.

Soils at this landfill consist primarily of a black silty clay overlying white fossiliferous limestone bedrock of the Goodland Limestone. The Goodland-Walnut Formation acts as an aquitard, which is a barrier limiting downward flow of groundwater and possible contamination to the deeper aquifer. Rain water collects inside the trench and is retained by the Goodland Limestone.

No previous environmental investigations have been conducted at Landfill 10.

### RCRA FACILITY INVESTIGATION

Prior to beginning the field work, historical aerial photographs were used to determine the approximate location and extent of Landfill 10. After this review, a geophysical survey of Landfill 10 was conducted in order to identify possible areas of buried wastes. Anomalous areas identified by the geophysical survey were marked for sampling locations, in attempt to potentially locate the areas of most contamination.

The field sampling efforts at Landfill 10 were conducted by HydroGeoLogic, Inc., from February through April 1998. A total of 10 samples were collected from surface and subsurface soils. In addition, two surface water samples were collected. All samples were analyzed for the full suite of Appendix IX compounds as required by 40 Code of Federal Regulations (CFR), Part 264. No groundwater was encountered during the investigation and, therefore, was not sampled. In addition, soil borings were used to locate the boundaries of the landfill and to characterize the types of wastes disposed of in the unit.

### RESULTS

Wastes encountered during the RFI at Landfill 10 consisted primarily of construction debris including primarily concrete rubble and asphalt.

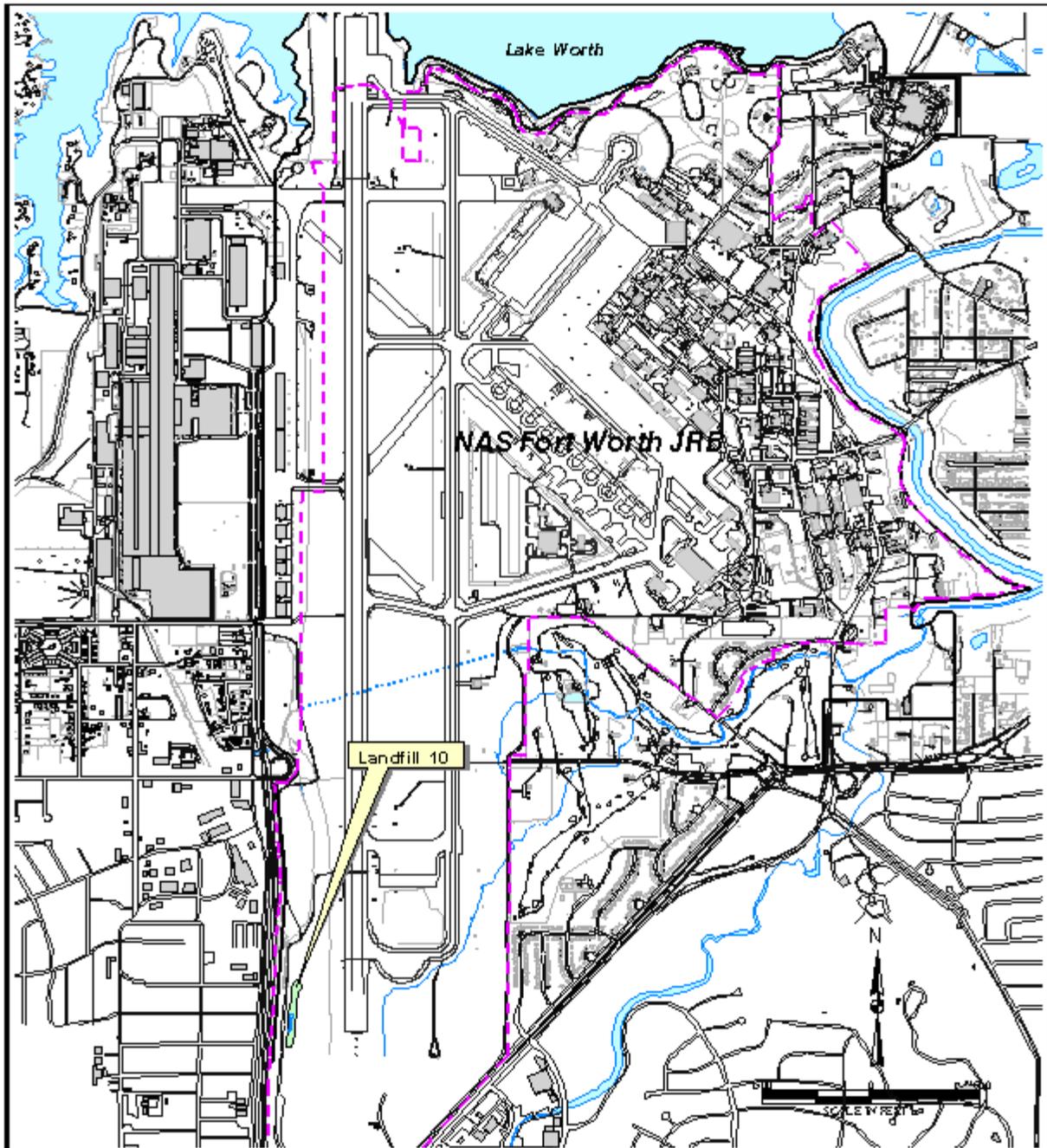
---

Results from the RFI indicate that a release of hazardous constituents to the environment from this unit has not occurred. Based on these findings, a Final RFI Report documenting these results and recommending no further action at Landfill 10 was submitted to TNRCC and the U.S. Environmental Protection Agency for approval in March 2000. TNRCC approved the

Final RFI Report and closure of Landfill 10 with no further action required was received in April 2000. Although not required, AFCEE plans to remove the standing water present in Landfill 10 and fill the open trench with clean fill to grade.

**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@fwh.afres.af.mil](mailto:Mike.Dodyk@fwh.afres.af.mil).*



File name: X:\HFC00\1126 R&L\AIR\report\Location\_map.dwg  
 Project: HFC00-1-26L-1  
 Created: c:\farmer\003109100  
 Revised:  
 Source: HydroGeoLogix, Inc. - GIS Database



**Legend**

- - - NAS Fort Worth JRB Boundary
- Former Carswell AFB Boundary

**Figure 1**

**Landfill 10 Location Map**