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FINAL WORK PLAN ADDENDUM LIMITED RCRA FACILITY INVESTIGATION OF SOLID  
WASTE MANAGEMENT UNIT 50 NAS FORT WORTH TX  
9/1/2000  
HYDROGEOLOGIC

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

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**ADMINISTRATIVE RECORD  
COVER SHEET**

AR File Number 686



**FINAL  
WORK PLAN ADDENDUM  
LIMITED RCRA FACILITY INVESTIGATION OF SWMU 50  
FORMER AIRCRAFT WASH RACK  
NAS FORT WORTH JRB, TEXAS**

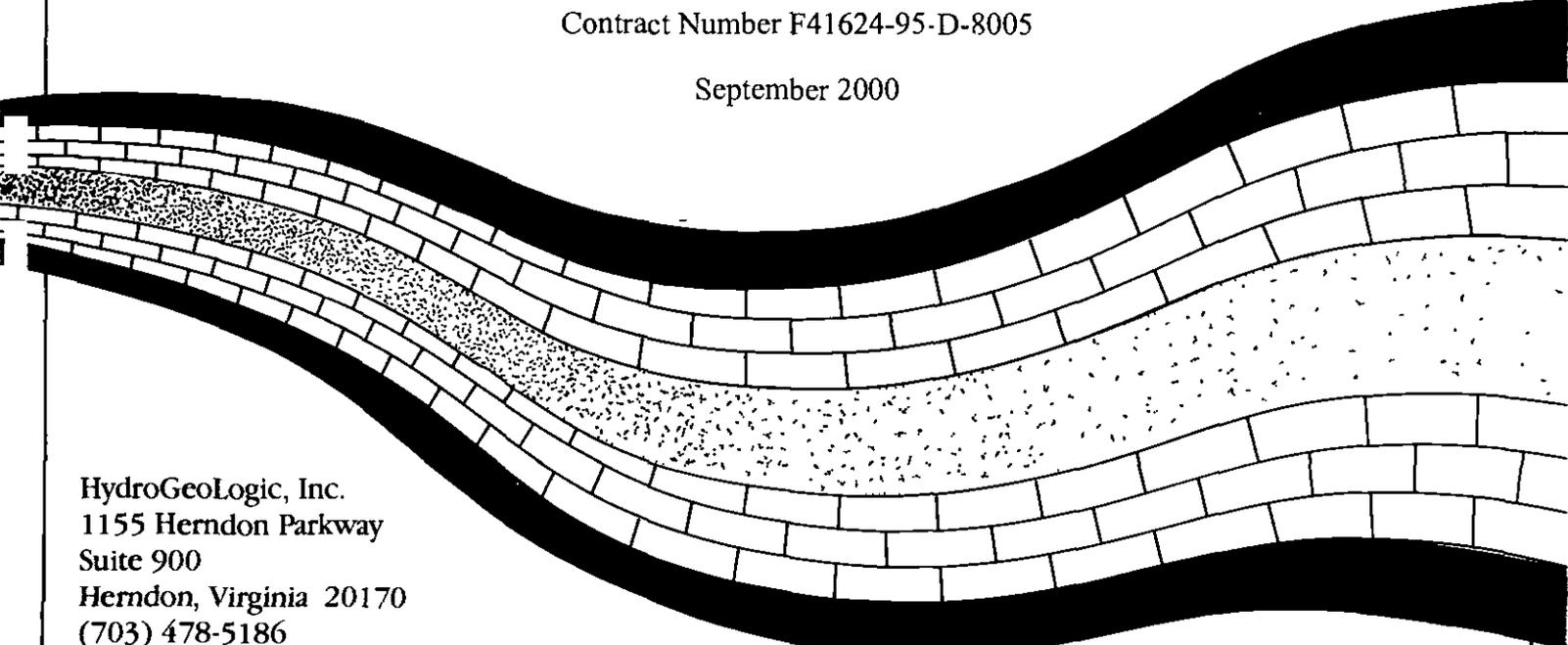


Prepared for

U.S. Air Force Center for Environmental Excellence  
Brooks AFB, Texas

Contract Number F41624-95-D-8005

September 2000

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HydroGeologic, Inc.  
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**FEDERAL EXPRESS**

September 29, 2000

Mr. Don Ficklen  
HQ AFCEE/ERD  
3207 North Road  
Brooks AFB, Texas 78235-5363

**Re: Final Work Plan Addendum Limited RCRA Facility Investigation of SWMU 50  
Former Aircraft Wash Rack  
NAS Fort Worth JRB, Texas  
F41624-95-D-8005-0029**

Dear Mr. Ficklen:

HydroGeoLogic, Inc. is pleased to submit the Final Work Plan Addendum Limited RCRA Facility Investigation of SWMU 50 at NAS Fort Worth JRB, Texas. This report presents proposed field activities in support of the RCRA Investigation at SWMU 50, a former wash rack, located at NAS Fort Worth JRB, Texas. This plan has been prepared as an addendum to the SWMU 19, 20, 21, and 53, and AOC 17, 18, and 19 Work Plans (April, 2000)

Please call me at (703) 736-4511 should you have any questions or comments concerning this document

Sincerely,

Miquette Rochford, P.G.  
Project Manager

Enclosure

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**FINAL  
WORK PLAN ADDENDUM  
LIMITED RCRA FACILITY INVESTIGATION OF SWMU 50  
FORMER AIRCRAFT WASH RACK  
NAS FORT WORTH JRB, TEXAS**



Prepared for  
U.S. Air Force Center for Environmental Excellence  
Brooks AFB, Texas

Contract No. F41624-95-D-8005

Prepared by  
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September 2000

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## PREFACE

This document contains the Draft Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Work Plan Addendum for Solid Waste Management Unit (SWMU) 50 at the Naval Air Station Fort Worth Joint Reserve Base (NAS Fort Worth JRB), Texas.

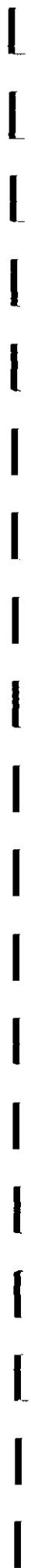
HydroGeoLogic, Inc. (HydroGeoLogic) prepared this report under contract to the U.S. Air Force Center for Environmental Excellence (AFCEE), Contract No. F41624-95-D-8005, Delivery Order No. 0029, in support of the Air Force Installation Restoration Program (IRP).

Responsible key HydroGeoLogic personnel are as follows.

James P. Costello, P.G.	Program Manager
Miquette Rochford, P.G.	Deputy Program Manager
Lynn Morgan, P.G.	Project Manager

This contract will be administered by the Defense Contract Management Command, 10500 Battleview Pkwy., Suite 200, Manassas, Virginia, 22110. The Contracting Officer will be Mr. Cliff Trimble. The Contracting Officer's Representative will be Mr. Don Ficklen (210/536-5290), located at the AFCEE/Environmental Restoration Division, 3207 North Road, Brooks Air Force Base (AFB), Texas 78235-5363.

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## LIST OF ACRONYMS AND ABBREVIATIONS

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AFB	Air Force Base
AOC	Area of Concern
ARARs	Applicable or Relevant and Appropriate Requirements
CFR	Code of Federal Regulation
COPC	contaminant of potential concern
DPT	direct push technology
EPA	U.S. Environmental Protection Agency
HydroGeoLogic	HydroGeoLogic, Inc.
IRP	Installation Restoration Program
IDW	investigative derived waste
LEL	lower explosive level
MQL	method quantitation limit
NAS Fort Worth JRB	Naval Air Station Fort Worth Joint Reserve Base
NPDES	National Pollution Discharge Elimination System
PAH	polynuclear aromatic hydrocarbon
PPE	personal protective equipment
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RRS	risk reduction standards
SVOC	semivolatile organic compound
SWMU	solid waste management unit
TAC	Texas Administrative Code
TNRCC	Texas Natural Resource Conservation Commission
TPH	total petroleum hydrocarbons
USAF	United States Air Force
VOC	volatile organic compound

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**FINAL  
WORK PLAN ADDENDUM  
LIMITED RCRA FACILITY INVESTIGATION OF SWMU 50  
FORMER AIRCRAFT WASH RACK  
NAS FORT WORTH JRB, TEXAS**

## **1.0 INTRODUCTION**

The following sections briefly describe the objective of the United States Air Force (USAF) Installation Restoration Program (IRP) and the rationale for implementing this work plan addendum. The original work plans for Solid Waste Management Units (SWMUs) 19, 20, 21, and 53 and Areas of Concern (AOCs) 17, 18, and 19 are the basis for this addendum (HydroGeoLogic, 2000a).

### **1.1 BACKGROUND**

Carswell Air Force Base (AFB) was officially closed on September 30, 1993. A parcel of the former base now known as Naval Air Station Fort Worth Joint Reserve Base (NAS Fort Worth JRB), has been transferred from USAF to U.S. Navy management. Before complete property transfer can be accomplished, required environmental investigations of potential contamination related to Air Force activities occurring prior to September 30, 1993 at the NAS Fort Worth JRB property are to be complete, and contaminated sites are to be remediated.

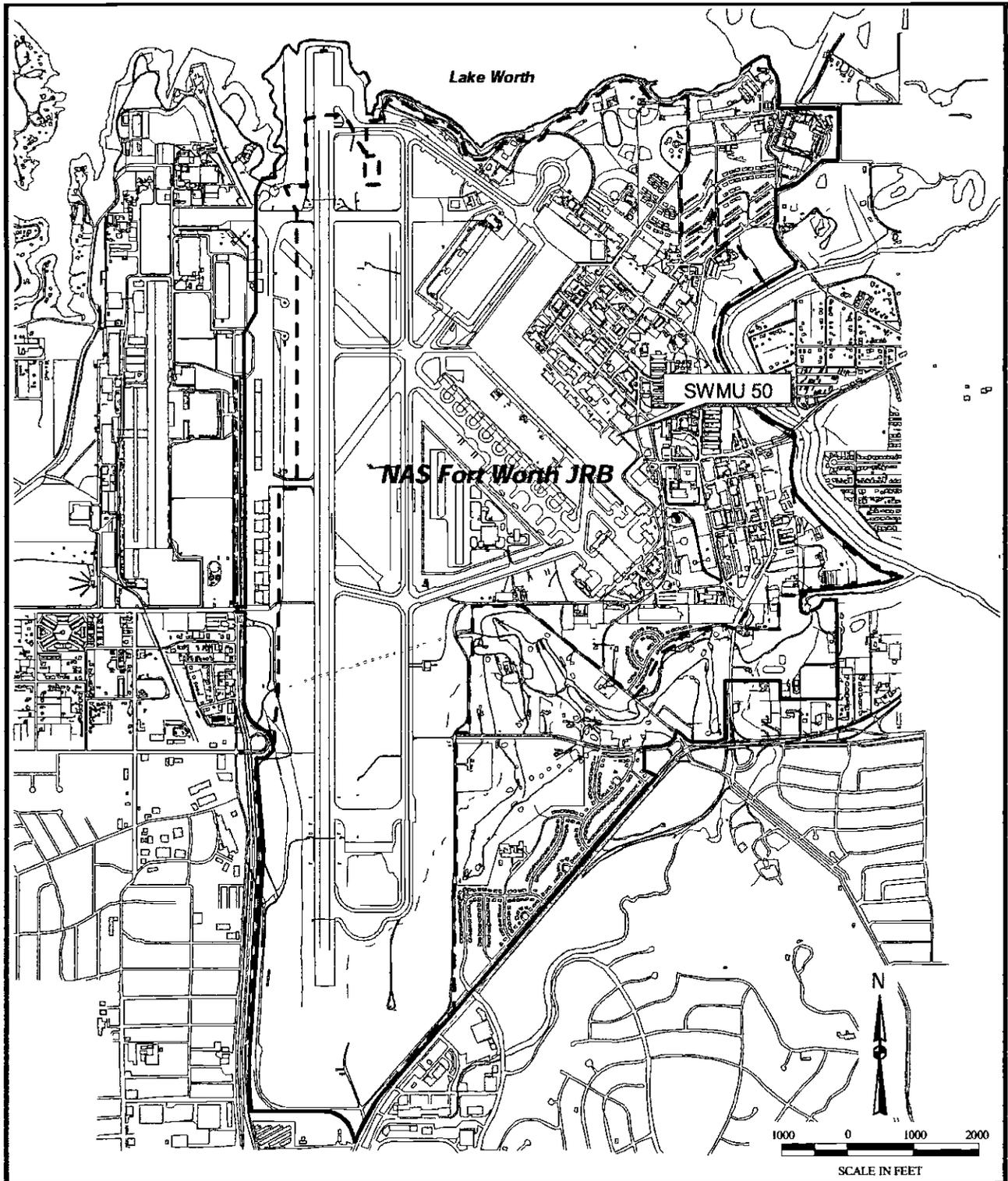
On February 7, 1991, the former Carswell AFB (NAS Fort Worth JRB), was issued a Resource Conservation and Recover Act (RCRA) hazardous waste permit (HW-50289) by the Texas Natural Resource Conservation Commission (TNRCC). This permit requires the RCRA Facility Investigation (RFI) of all SWMUs and AOCs listed in Permit Provision VIII, as well as those SWMUs and AOCs subsequently added to the list, in order to determine whether any of the hazardous constituents listed in 40 Code of Federal Regulation (CFR) Part 264, Appendix IX, have been released into the environment.

This work plan addendum summarizes the initial field activities to be conducted at SWMU 50 and presents the rationale for possible additional soil and groundwater investigations to be conducted if contamination is confirmed at the site. The objective of this investigation is to determine if hazardous constituents have been released to the environment from the site. If a release is confirmed with this initial field investigation, a second phase will follow to determine the nature and extent contamination. The focus of this project is to ultimately obtain closure of SWMU 50 under the TNRCC Risk Reduction Standards (RRS) program. This program assures adequate protection of human health and the environment from potential exposure to contaminants associated with releases from SWMUs or AOCs. Cleanup levels are specified for different types of contaminated media such as air, surface water, groundwater, and soil. When delineation of the

contamination is complete, all data will be compiled and presented in a report with a discussion of the RRS standard that is appropriate for closure at the site. If the laboratory analysis results confirm no soil contamination above background levels has occurred, the SWMU will be recommended for no further action and closure under RRS 1 per 30 Texas Administrative Code (TAC) §334.554 under a separate Closure Report cover. If the laboratory results confirm soil contamination, the SWMU will require further investigation and/or remediation before closure may be requested. Based on the types of chemicals used at SWMU 50, the soil samples will be analyzed for limited Appendix IX parameters.

## 1.2 SITE DESCRIPTION

SWMU 50 (aircraft washing area No. 2) is located southwest of Building 1410 in the central portion of the NAS Fort Worth JRB (Figure 1.1). The SWMU served as a wash rack that collected wastewater resulting from cleaning and maintenance activities for military aircraft. This activity would have involved the use of numerous cleaners and solvents. The SWMU is currently inactive, with no waste entering the drain system. The unit start up date is unknown. Based on aerial photos, SWMU 50 was shut down as a wash rack between August 1992 and December 1996. The drain at the site, measuring 3 feet by 75 feet, discharges through base storm sewers before entering the East Gate Oil/Water Separator (SWMU 55). At SWMU 55, the water is directed toward a National Pollution Discharge Elimination System (NPDES) outfall, then into an unnamed stream, and eventually to the West Fork Trinity River. Storm water runoff from the surrounding parking lot should be the only liquid that enters into the drain. No documentation has been found indicating previous environmental investigations involving intrusive activities at the unit. According to the RCRA Facility Assessment (RFA) conducted by A.T. Kearney in 1989, no evidence of a release was observed at the site, and the potential for a release into soil or groundwater appeared to be low (A.T. Kearney, 1989). A.T. Kearney made no recommendation for further investigations at SWMU 50.



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**Legend**

- NAS Fort Worth JRB Boundary
- Former Carswell AFB Boundary

**Figure 1.1**

**SWMU 50 Location  
 NAS Fort Worth JRB, Texas**

## **2.0 FIELD INVESTIGATION PROGRAM**

This investigation will be conducted in an effort to characterize possible hazardous chemical wastes related to past site operations. If contaminants are detected in the soil, a determination of the nature and extent of contamination will occur during a second field sampling event. The need for additional soil borings and/or monitoring wells may be necessary at a later date to further delineate the extent of contamination originating from SWMU 50. This sampling program is designed in part based on to a meeting between the Air Force and the TNRCC in Austin, Texas regarding the investigation approach necessary for closure of the unit. The current status of the drain system, the procedures needed to verify possible soil and/or groundwater contamination, and the most cost effective approach for closure of the site, were the primary topics discussed at this meeting, and will be implemented through this addendum (HydroGeoLogic, Inc., 2000b).

This initial soil investigation will be conducted in accordance with the RFI of SWMUs 19, 20, 21, and 53, and Site Investigation of AOCs 17, 18, and 19 Work Plans (HydroGeoLogic, 2000a). The original RFI Work Plans and this work plan addendum have been prepared using guidance documents from the IRP, RCRA, the U.S. Environmental Protection Agency (EPA), and the TNRCC RRS program. The RFI Work Plans contain the Field Sampling Plan, which will be followed during all sampling activities. Analytical data generation and assessment were designed to achieve data quality goals in accordance with the Basewide Quality Assurance Project Plan (QAPP), which was revised and approved in March 2000 (HydroGeoLogic, 2000c). The sampling and analysis proposed in this addendum will be conducted in accordance with this QAPP. All field activities will follow the site Health & Safety Plan submitted within the Final RFI Work Plans (HydroGeoLogic, 2000a). These plans establish personnel protection standards and mandatory safety practices and procedures for HydroGeoLogic personnel while in the field.

In order to complete certain tasks during the field activities for this investigation, entry into a confined space may be required. A confined space is defined as an enclosure which is large enough for an employee to enter, but which has limited means of access and egress, and is not designed for continuous employee occupancy. HydroGeoLogic confirmed that SWMU 50 is designated by NAS Fort Worth JRB a confined space. Per NAS Fort Worth JRB requirements, HydroGeoLogic will notify the base safety office and the base fire marshall prior to all intrusive field activities. Access to the drain and all work within it must be conducted in accordance with 29 CFR 1910.146.

Though a confined space, the drain assembly at SWMU 50 is designated by the Navy as a non-permit required confined space. This designation conveys that the drain does not contain or have the potential to contain an atmospheric hazard or other hazard capable of causing death or serious physical harm. An attendant (standby person) will be on site at all times when personnel are inside the drain. Revised requirements for personal protective equipment (PPE) will be based on conditions and on potential hazardous material that may be present at the site. It is anticipated, and field personnel will be able to execute field work and will be prepared for donning Level C PPE during intrusive investigations at the site.

## **2.1 FIELD ACTIVITIES**

Proposed field activities include the following:

- Cleaning and visual inspection of the integrity of the drain and associated pipe junctions.
- Characterization of the sludge and water that is collected while cleaning the drain.
- Installation of borings for visual observation and chemical analysis of subsurface soils.
- If needed, installation of additional soil borings and permanent monitoring wells to evaluate the groundwater

### **2.1.1 Visual Inspection**

Prior to any intrusive activities, the unit will be visually inspected for structural integrity and overall condition. Any damage will be identified that could have possibly caused leaks to occur into the surrounding soils. Any water and/or sediment or other residue present in the drain or piping will be collected for field characterization. Significant features will be photographed and all observations will be recorded and documented as part of this investigation.

### **2.1.2 Cleaning/Characterization**

The drain and piping connection points will be steam cleaned using a power wash and detergent. The runoff produced by this cleaning will be vacuumed out of the drain with a vacuum truck and disposed of properly (Section 4.0). The sludge will be characterized for disposal along with determining the analytical parameters needed to accurately identify the chemical components. Field characterization of the sludge may justify further analysis beyond Appendix IX volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. Additional analyses may include total petroleum hydrocarbons (TPHs) and polynuclear aromatic hydrocarbons (PAHs).

### **2.1.3 Soil Borings**

There is no record of a release of any known types or amounts of hazardous wastes at SWMU 50 throughout its period of operation. Therefore, the field tasks described below were chosen by evaluating the type and purpose of data required to adequately characterize the site, based on process knowledge of aircraft wash rack operations.

During the initial soil investigation, soil borings are proposed to be advanced around SWMU 50 using the direct push technology (DPT) method. This soil sampling method will be used to determine if a release has occurred that has impacted either surface and subsurface soils, in addition to the lithology of underlying soils. The drilling of additional borings will be contingent

on any elevated contaminant of potential concern (COPC) levels. Five borings will be completed either to the top of the water table or, if groundwater is not encountered, to refusal. Soil samples will be collected for analysis every 5 feet to the top of the water table as required by the permit. The proposed soil boring locations are presented in Figure 2.1. Three of the borings are located on the downgradient side of the drain (with one of the borings located adjacent to the outlet pipe), while the other two borings are located on the inlet side of the drain. Each soil boring will have a geologic boring log completed by a qualified geologist.

If the soil sample results show any COPC concentrations above background levels, additional soil borings and groundwater monitoring wells may be installed and sampled. Figure 2.1 shows possible monitoring well locations that would aid in identifying the extent of groundwater contamination and determining groundwater flow direction at the site. All groundwater samples will be analyzed for Appendix IX VOCs, SVOCs, and metals. Based on surrounding monitoring wells, the depth to groundwater is anticipated to be approximately 14 to 16 feet below ground surface. If groundwater is to be sampled, a minimum of two rounds will be performed at least two months apart. If the groundwater sample results indicates COPC concentrations above background levels, subsequent groundwater samples from monitoring wells will be collected in accordance with the Final RFI Work Plans (HydroGeoLogic, 2000a).

## 2.2 ANALYTICAL PROGRAM

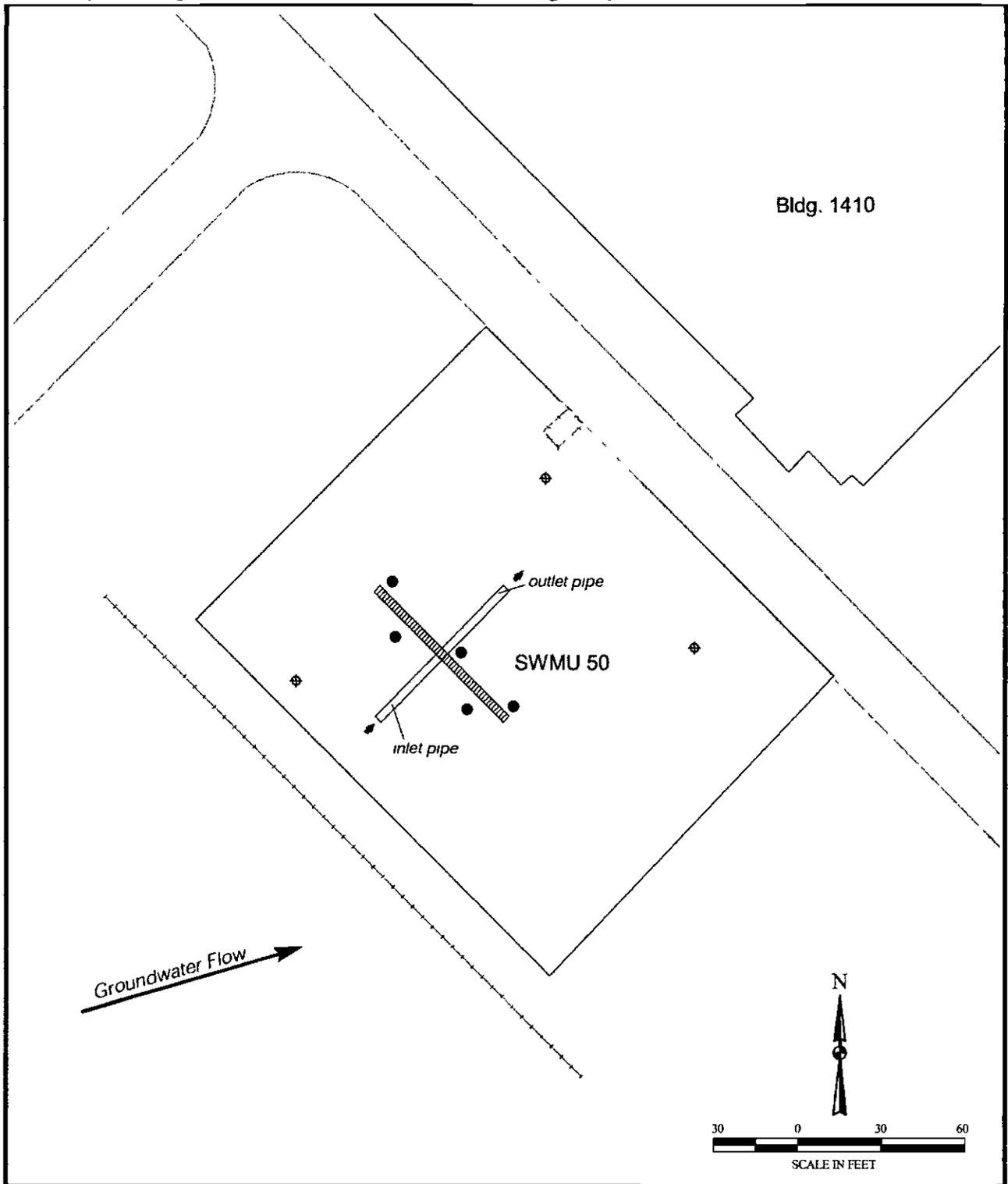
There have been no previous investigations associated with SWMU 50. However, based on evidence confirming the existence of the site (aerial photographs) as an aircraft washrack, and on an understanding of washrack operations and likely wastes, analyses for soil samples will include Appendix IX VOCs, SVOCs, and metals (Oregon State University Thesis, 1964). The soil samples will be analyzed for the following Appendix IX parameters:

### Appendix IX

- SW8260B VOCs
- SW8270C SVOCs
- SW6010B trace elements (metals)
- SW7471A mercury

Additional methods that may be necessary based on field observations or evaluation of analytical results for sludge characterization and disposal that are not included in the Appendix IX list are TPH by EPA Method TX1005 and PAH by EPA Method SW8310.

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Legend	
	Potential Monitoring Wells
	Proposed Soil Borings
	Solid Waste Management Unit
	Fence
	Drain

**Figure 2.1**  
**Proposed Soil Boring**  
**Locations**  
**SWMU 50**  
**Former Aircraft**  
**Washing Area No. 2**

### **3.0 DATA EVALUATION**

The Applicable or Relevant and Appropriate Requirements (ARARs) for the site and the TNRCC HW-50289 Permit will be applied to the site. ARARs will be considered during the remedy process. Federal statutes that will be used for guidance include the Solid Waste Disposal Act, RCRA, the Toxic Substances Control Act, the Safe Drinking Water Act, the Clean Air Act, and the Clean Water Act. The three requirements that comprise the general types of ARARs are chemical specific requirements, location specific requirements, and action specific requirements.

If contamination is encountered, the nature and extent of the contamination will be characterized. This will be accomplished by defining the vertical and lateral extent of chemical constituents compared to that of background or RRS 1. Field activities that may be utilized include soil boring installation, monitoring well installation, and soil and groundwater sampling. Proposed soil borings and possible monitoring well locations may change due to site-specific conditions such as utilities or structures encountered during field implementation. A second round of borings may be advanced if the proposed samples identify contamination above RRS 1. Additional soil samples and/or monitoring wells may be installed at a later date if necessary, in order to delineate the extent of any contamination not completely delineated during this initial investigation. The location of these borings would be placed to further define the lateral and vertical extent of contamination at the site.

The analytical results of the soil samples collected during this initial investigation will be compared to the site-specific background values as determined by the Final Basewide Background Study conducted by Jacobs in 1998 (Jacobs, 1998). The investigation results for organic compounds will be compared to method quantitation limits (MQLs). This evaluation is intended to provide data to determine if the site is eligible for closure under the RRS 1 per Texas Risk Reduction Rules 30 TAC §335 Subchapter S, or if further sampling is necessary to define the limits of contamination. Upon completion of data collection and evaluation, investigation findings and recommendations for the appropriate Risk Reduction Standard to use for site closure will be prepared and submitted to the Air Force in a stand alone RFI report.

#### **4.0 WASTE DISPOSAL**

HydroGeoLogic will follow all applicable state and federal regulations concerning the handling of investigative derived waste (IDW). The liquid wastes derived from the field activities at SWMU 50 may include development and purge water from monitoring well installation and decontamination water produced from the high pressure cleaning of the drain. Solid waste produced from field activities described in this work plan addendum are expected to be limited to drill cuttings from both soil borings and monitor well installation.

All IDW generated from SWMU 50 will be temporarily stored in containers in the IDW Staging Area. The contents of each container having solid waste will be characterized for hazardous material. Any water produced from the monitoring wells will be placed in a large poly tank and composite samples will be analyzed for disposal purposes. All IDW, including the fluids and liquids produced during the high pressure washing of the drain and associated connecting piping will be managed in accordance with the Final Basewide IDW Management Plan (HydroGeoLogic, 1999).

## **5.0 FIELD SCHEDULE**

During November 2000, the drain and piping will be cleaned and inspected for leaks, the collected sludge and liquids derived from cleaning the drain will be characterized, and five soil borings will be completed and samples collected. Using normal turnaround time, the preliminary soil data will be ready to evaluate by mid December 2000. Validated data from the initial soil sampling round is projected to be available by the end of December 2000. If necessary, utilization of SPLP analysis to provide site specific MSC values will be performed, and may increase the evaluation time of the samples by two weeks. The draft RFI report will be submitted within 60 days of the last data collection event.

Mobilization to the field is expected to begin as soon as the USAF approves this Work Plan Addendum and when consent for the dig permit subcontractor is obtained from AFCEE. All basic requirements for conducting field activities have been previously established. The field work will be guided by the original SWMU 19, 20, 21, and 53 RFI Work Plan, Health and Safety Plan, and Field Sampling Plan (HydroGeoLogic, 2000a).

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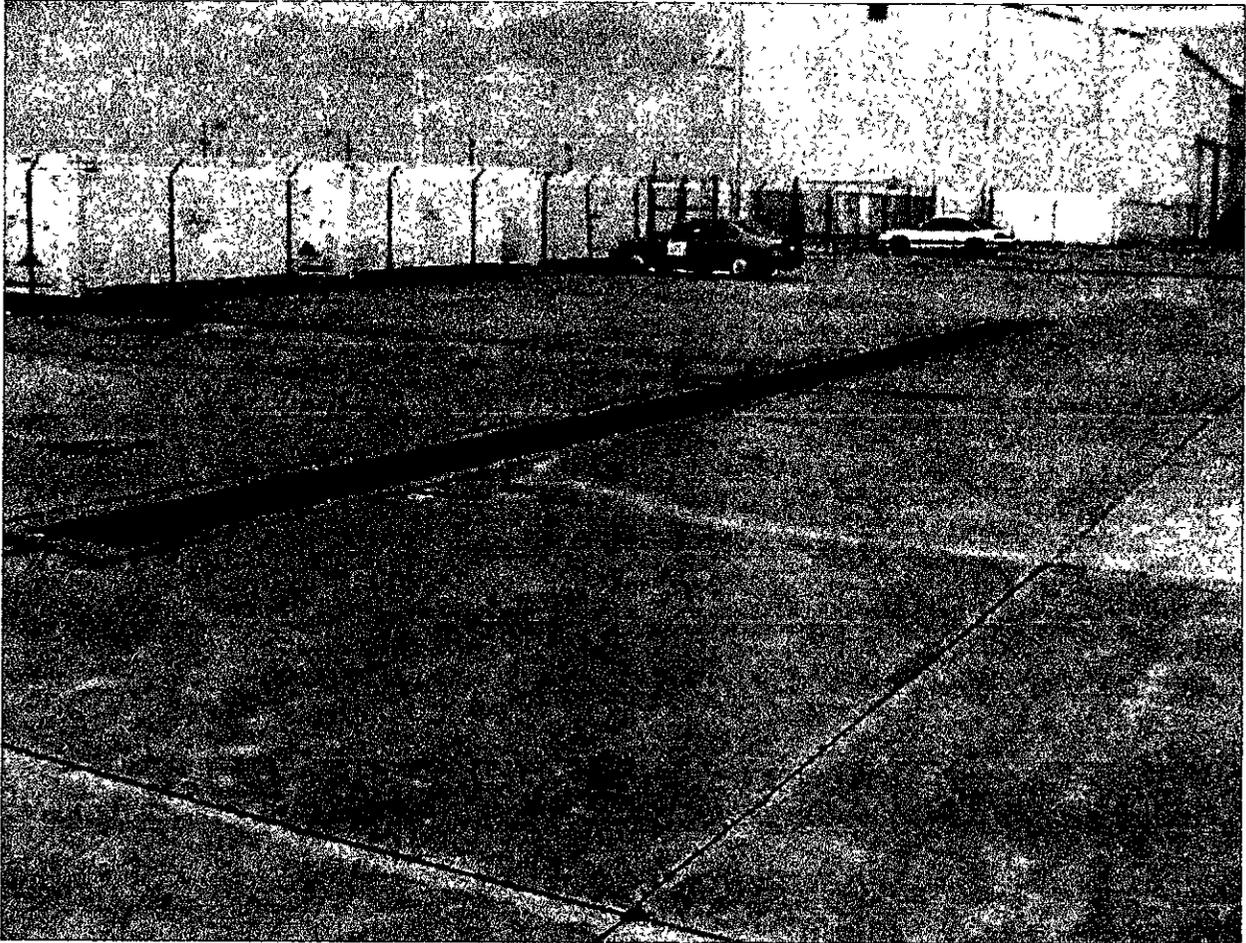
## 6.0 REFERENCES

- A. T. Kearney, 1989, RCRA Facility Assessment, Preliminary Review/Visual Site Inspection.
- HydroGeoLogic, Inc., 1999, Final Investigation Derived Waste (IDW) Management Plan, NAS Fort Worth JRB, Texas.
- HydroGeoLogic, 2000a, Final Work Plan, RCRA Facility Investigation of SWMUs 19, 20, 21, and 53; And Site Investigation of AOCs 17, 18, and 19 at NAS Fort Worth JRB, Texas, April 2000.
- HydroGeoLogic, Inc., 2000b, RPM Minute Meetings, Remedial Program Managers Meeting held at the TNRCC in Austin, Texas on June 27, 2000.
- HydroGeoLogic, Inc., 2000c, Final 2000 Basewide Quality Assurance Project Plan, NAS Fort Worth JRB, Texas.
- Jacobs Engineering Group, 1998, Final Basewide Background Study, Volume 1, NAS Fort Worth JRB, Texas.
- Oregon State University, 1964, Thesis, Aircraft Wash Rack Wastes, their Characteristics and Treatment.
- Texas Natural Resource Conservation Commission, 1996, Texas Administrative Code, Environmental Quality, Chapter 335 Industrial Solid Waste and Municipal Hazardous Waste, Risk Reduction Standards.

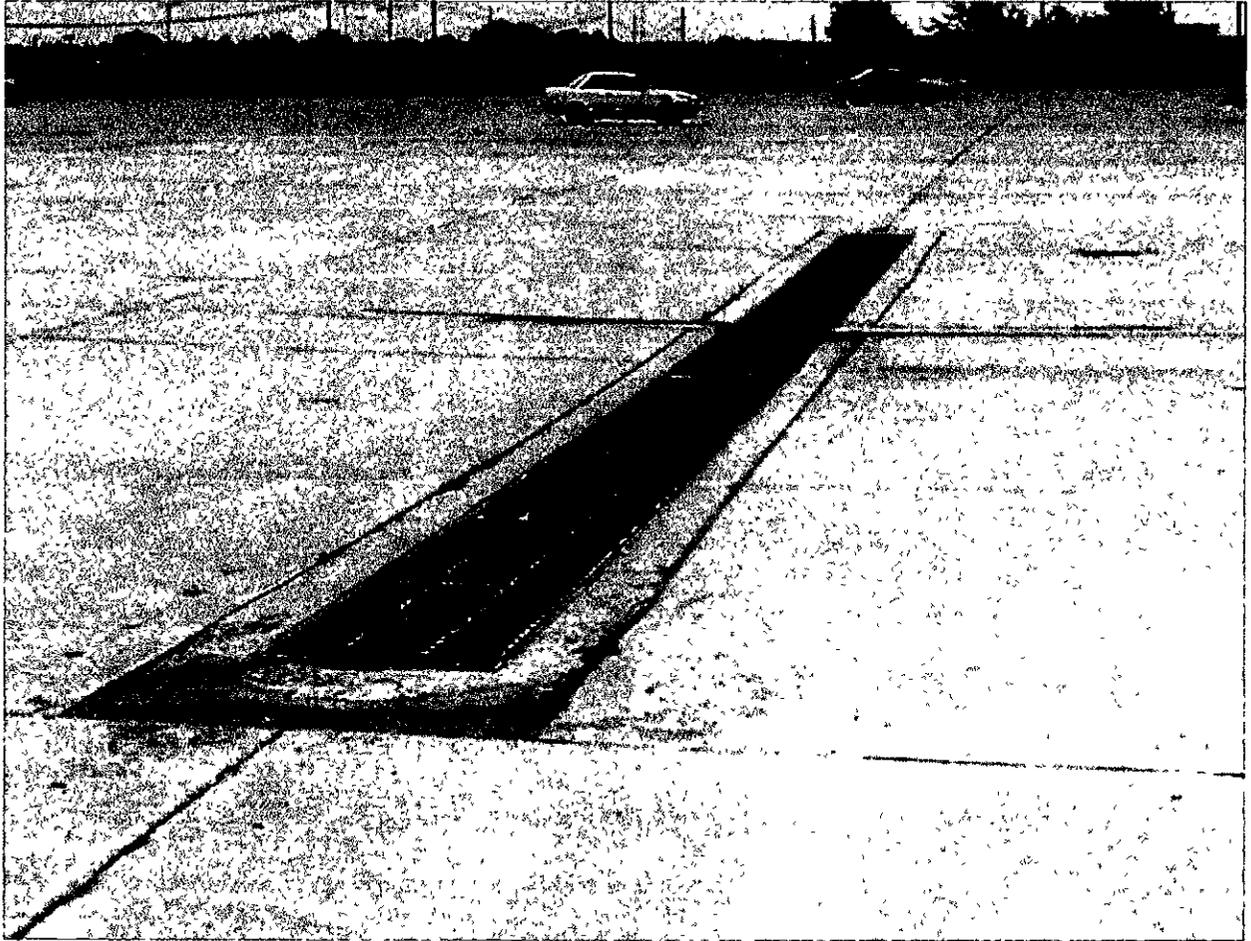
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**PHOTOGRAPHS**



SWMU 50 Looking West.



SWMU 50 Looking Southeast.

**FINAL PAGE**

**ADMINISTRATIVE RECORD**

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