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NAS FORT WORTH
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FINAL DEMOLITION AND ASSOCIATED ACTIVITIES AT LANDFILL 4 WORK PLAN NAS
FORT WORTH TX
5/1/2000
INTERNATIONAL TECHNOLOGIES



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

**ADMINISTRATIVE RECORD
COVER SHEET**

AR File Number 521

WORK PLAN

521

**Naval Air Station (NAS)
Fort Worth Joint Reserve Base, Texas**

**Final
Demolition and Associated
Activities at Landfill 04
Work Plan**



CONTRACT NO. F41624-94-D-8047²⁴, DELIVERY ORDER D0003

Project No. 774902
May 2000

**NAVAL AIR STATION (NAS)
FORT WORTH JOINT RESERVE BASE
CARSWELL FIELD, TEXAS**

**Final
Demolition and Associated Activities
Work Plan**



CONTRACT NO. F41624-97-D-8024, DELIVERY ORDER D00003

Project No. 774902

May 2000

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List of Acronyms

| | |
|-------|--|
| ACM | asbestos-containing material |
| AFB | Air Force Base |
| AFCEE | Air Force Center for Environmental Excellence |
| CFR | Code of Federal Regulations |
| DOT | Department of Transportation |
| IT | IT Corporation |
| NAS | Naval Air Station |
| PCB | polychlorinated biphenyl |
| PE | polyethylene |
| PPE | personal protective equipment |
| RA | remedial action |
| RFI | RCRA Facility Investigation |
| TDH | Texas Department of Health |
| TNRCC | Texas Natural Resource Conservation Commission |
| TSCA | Toxic Substances Control Act |
| UST | underground storage tank |
| 2H:IV | 2 horizontal units to 1 vertical unit |

1.0 Introduction

1.1 Project Objective

The objective of this project is to prepare Landfill LF-04 at Carswell Air Force Base (NAS Fort Worth) for the construction of a 7-acre dermal cover.

Activities will include the demolition and disposal of the former radar installation building and all associated utilities, removal and disposal of two concrete pads, removal and disposal of an abandoned transformer, and removal and disposal of phthalate contaminated soils.

1.2 Site Description and Background

Carswell Air Force Base (AFB) was first activated in 1918 as a combat training school. Pursuant to the Defense Base Closure Act and Realignment Act of 1990, Carswell AFB was selected for closure and associated property disposal during Round II Base Closure Commission deliberations. The Carswell AFB Disposal and Reuse Final Environmental Impact Statement was filed with the U.S. Environmental Protection Agency on April 29, 1992. A National Environmental Policy Act Record of Decision was issued on March 31, 1993. The Base officially closed on September 30, 1993.

The Air Force Base Conversion Agency is identifying and prioritizing the disposal and reuse of each parcel, based on market demand and reuse by the local community. Most of the property will be transferred to the U.S. Department of the Navy; therefore, Carswell AFB has been designated as the Naval Air Station (NAS) Fort Worth (IT, 1998).

The Base is located in north central Texas in Tarrant County, 8 miles west of downtown Fort Worth (See Figure 1-1). The Base property totals approximately 2,555 acres and consists of the main base and two noncontiguous parcels. The main Base comprises 2,264 acres and is bordered by Lake Worth to the north, the West Fork of Trinity River and Westworth Village to the east, Fort Worth to the northeast and southeast, White Settlement to the west and southwest, and AF Plant 4 to the west. The area surrounding NAS Fort Worth is mostly suburban, including the residential areas of the cities of Fort Worth, Westworth Village, and White Settlement. The land uses west of the Base are predominantly industrial. These include supporting commercial centers, AF Plant 4, and an industrial complex in White Settlement (IT, 1998).

09:26:24 STARTING DATE: 3/20/96 DATE LAST REV: DRAFT. CHCK. BY: C. TUMLIN INITIATOR: W. CARTER DWG. NO.: 768579es.146
 04/18/00 DRAWN BY: K. BLAIR ENGR. CHCK. BY: W. CARTER PROJ. MGR.: W. CARTER PROJ. NO.: 765725

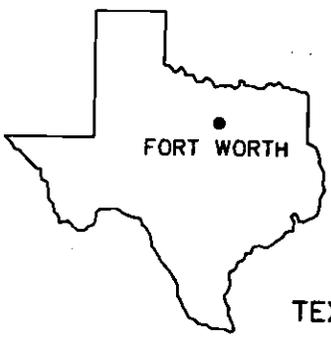
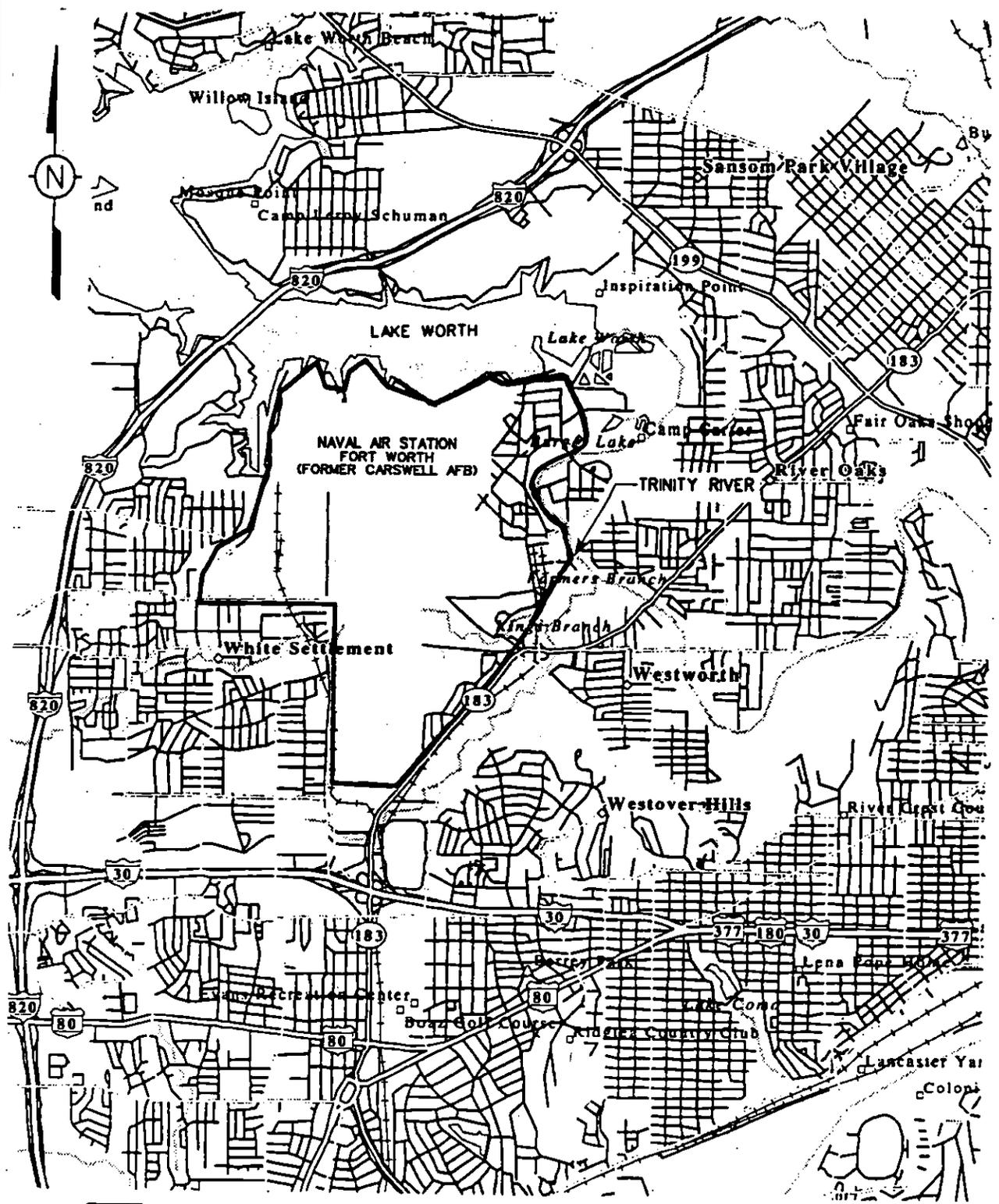


FIGURE 1-1
 BASE LOCATION MAP

NAVAL AIR STATION FORT WORTH
 FORT WORTH, TEXAS

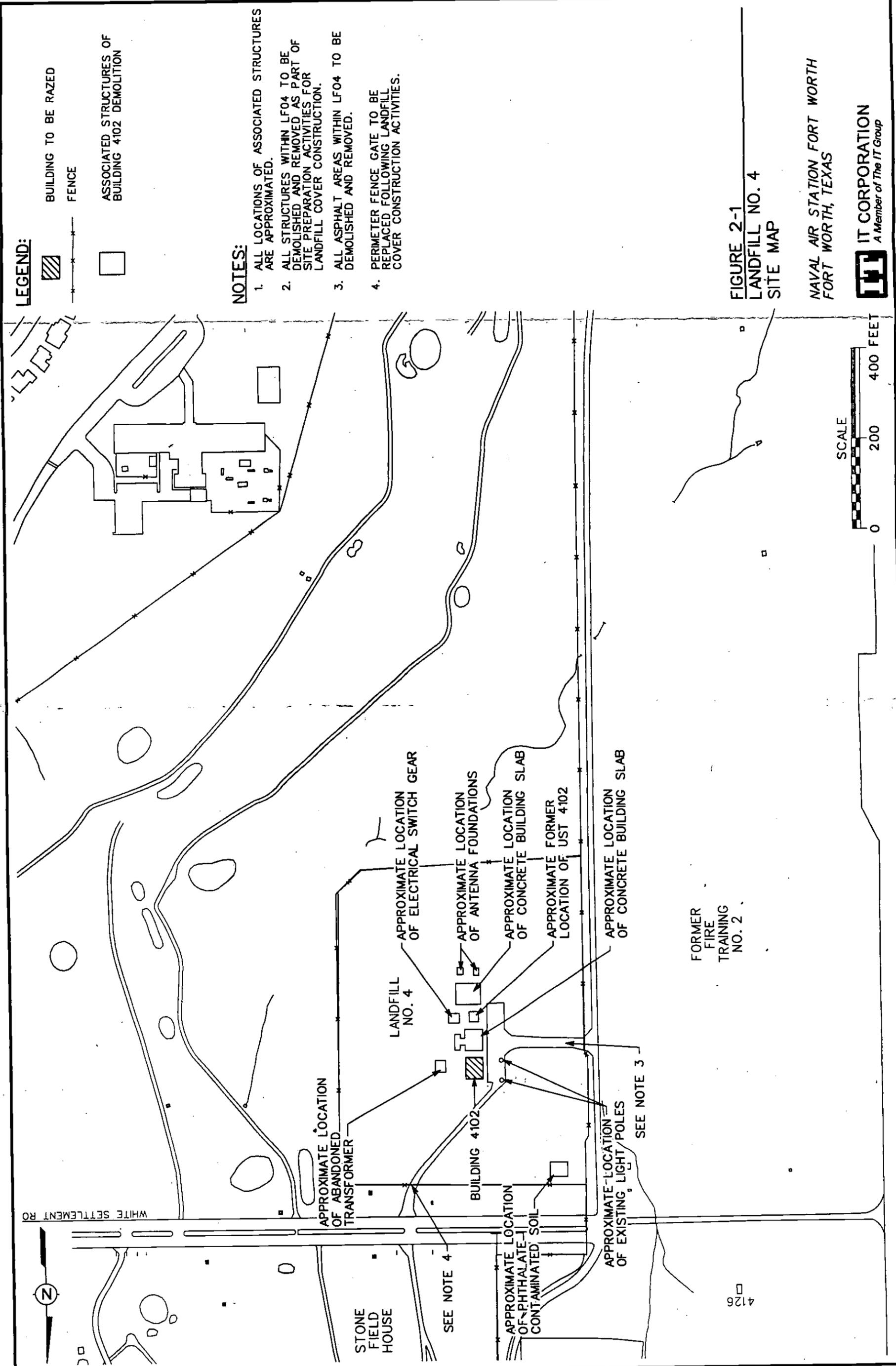


2.0 Previous Investigations

Landfill LF-04 (Figure 2-1) operated from 1956 to 1975 and reportedly received paint, thinners, strippers, cadmium batteries, waste solvents, and miscellaneous burned wastes. A multipurpose RCRA Facility Investigation (RFI) at this site was conducted from 1977 through 2000. A final report and a Corrective Measures Design are being completed. The draft RFI report (December 1997) indicated that while in use, at least six large pits approximately 12 feet deep were filled with refuse, which was reportedly burned and covered. Medical wastes (hypodermic needles, syringes, IV tubing) were encountered in subsurface soils during the test excavations for the RFI. The site is located on the western boundary of the golf course (IT, 1998).

There were several phased investigations in early 2000 to delineate the extent of the landfill and delineate an area within the Landfill of bis(2-ethylhexyl) phthalate contaminants. This was completed in February 2000.

A 350-gallon UST, present at Landfill 4, was removed in 1996 by Parsons Jacobs Engineering. The removal resulted in a clean closure.



LEGEND:

 BUILDING TO BE RAZED
 FENCE

 ASSOCIATED STRUCTURES OF BUILDING 4102 DEMOLITION

NOTES:

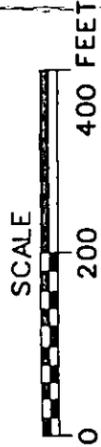
1. ALL LOCATIONS OF ASSOCIATED STRUCTURES ARE APPROXIMATED.
2. ALL STRUCTURES WITHIN LFO4 TO BE DEMOLISHED AND REMOVED AS PART OF SITE PREPARATION ACTIVITIES FOR LANDFILL COVER CONSTRUCTION.
3. ALL ASPHALT AREAS WITHIN LFO4 TO BE DEMOLISHED AND REMOVED.
4. PERIMETER FENCE GATE TO BE REPLACED FOLLOWING LANDFILL COVER CONSTRUCTION ACTIVITIES.

FIGURE 2-1
LANDFILL NO. 4
SITE MAP

NAVAL AIR STATION FORT WORTH
 FORT WORTH, TEXAS



IT CORPORATION
 A Member of The IT Group



FORMER
 FIRE
 TRAINING
 NO. 2

| | | | | |
|--------------------------|---------------------------|-------------------------|-----------------------|------------------------|
| ST/ARTING DATE: 04/05/00 | DATE LAST REV: 05/30/00 | DRAFT/CHK BY: C. TUMLIN | INITIATOR: J. HARRILL | DWG. NO.: 774902es.007 |
| DRAWN BY: T. BRADSHAW | ENGR. CHK. BY: J. HARRILL | PROJ. MGR.: W. CARTER | PROJ. NO.: 768579 | |

3.0 Demolition and Removal Activities

The purpose of this chapter is to identify and discuss the removal actions for existing structures at LF-04 as part of site preparation activities prior to construction of the municipal landfill cover. The demolition and removal actions will be done in accordance with the design issued in April 2000 by HydroGeoLogic, Inc. Chapter 3.0 outlines the work to be performed for the following activities:

- Demolition and disposal of the former radar installation building, all associated asphalt areas, associated light poles and underground wiring, and all associated utilities will be removed to two feet below ground surface
- Excavation and disposal of phthalate contaminated soils
- Removal and disposal of an abandoned transformer and electrical switch gear
- Removal and disposal of concrete transformer pads and associated soils, if required, removal and disposal of electrical switch gear foundation pad, the removal and disposal of the antenna concrete foundations, and the removal and disposal of two additional concrete building foundation slabs (buildings previously removed).

Prior to work at any of these sites, the areas will be marked with caution tape to prevent unauthorized personnel from entering the area. Work areas and exclusion zones will be established.

During mobilization, the gate along the Base perimeter fence will be removed to provide access to the LF-04 site. Following the work at LF-04, the Base perimeter fence gate will be replaced.

3.1 Former Radar Installation Building (Building 4102)

The former radar installation building and associated asphalt and utilities located at LF-04 will be demolished and disposed according to the procedures described in the following sections. Appendix B presents photographs of Building 4102 and the associated structures (i.e., transformer, electrical switch gear, building slabs, etc.).

3.1.1 Environmental Assessment

An environmental assessment shall be conducted of the former radar building by a licensed abatement subcontractor. The purpose of the environmental assessment will be to determine at a minimum the presence and extent of lead based paint(s), PCBs, asbestos, and asbestos-

containing materials (ACM) within the former radar building. In the event asbestos or ACM is discovered, the environmental assessment shall determine if the asbestos or ACM is friable.

Following the environmental assessment, any lead based paint, PCBs, asbestos, or ACM discovered during the assessment and exceeding allowable limits will be removed and properly disposed.

All demolition activities will be done in accordance with 40 Code of Federal Regulations (CFR) 61.145, which requires notification of demolition activities and removal of certain ACM.

3.1.2 Permits and Notifications

All appropriate permits, including utility clearances, hot work permits, dig permits, demolition permits, etc., will be obtained prior to initiating demolition activities. IT Corporation (IT) will coordinate with local utility companies to ensure that utilities are marked and properly disconnected prior to beginning demolition. IT will prepare all necessary permits and notifications for the Air Force Representative's signature.

In accordance with the Texas Asbestos Health Protection Act, IT will provide written notification 10 working days prior to demolition activities to the Texas Department of Health (TDH). The TDH Demolition/Renovation Notification Form must be used in notifying the TDH of any demolition activities. Proper notification to the TDH is required regardless of the presence of asbestos or ACM. A copy of the referenced form is included in Appendix A.

3.1.3 Demolition

Upon completion of the environmental assessment and subsequent removal of any lead-based paint, PCBs, asbestos, or ACM, the former radar installation building and all associated utilities will be demolished. The sewer line will be removed up to the main line and the manhole inlet in the street will be plugged. All asphalt areas within LF-04 will also be removed and disposed or recycled accordingly.

Prior to beginning demolition activities, the Base Recycling Coordinator, Paul Bailey, 782-6037, will be contacted and offered the opportunity to obtain any materials from the site that may feasibly be recycled.

Demolition activities will be performed using bulldozers, backhoes, cutting torches, jackhammers, and other demolition equipment, as necessary, to reduce the building to manageable pieces.

3.1.4 Disposal

Following the demolition of the radar installation building, all associated construction debris and rubble will be loaded for transportation and disposed in a permitted construction debris landfill.

3.1.5 Site Restoration

Site restoration will include rough grading, so that the area will drain properly. If the start date of the landfill cover construction is more than one month, temporary erosion control measures will be taken. These may include temporary grassing and silt fencing.

In the event demolition activities result in soil removal greater than one foot in depth, certified clean backfill will be placed in the specified areas. Since a landfill cover is planned for this site all backfill will meet specifications for the landfill cover.

3.2 Excavation of Phthalate Contaminated Soils

A 9' x 9' x 9' deep area of phthalate contaminated soils located approximately 1,000 feet southwest of the former radar building will be excavated and disposed of according to the procedures described in the following sections.

3.2.1 Permitting

All appropriate permits, including dig permits, utility clearances, etc., will be obtained prior to initiating the removal action (RA) activities. IT will coordinate with local utility companies to ensure that utilities are properly marked and properly disconnected prior to beginning work.

3.2.2 Location of Contaminated Soils

The phthalate-contaminated soils have previously delineated through previous sampling activities. Appendix B presents a photograph taken at the site, which show the wooden stakes (with orange flags) used in locating the corners of the contamination area.

3.2.3 Soil Excavation

The soil from the 9' x 9' x 9' deep area will be excavated and loaded directly into trucks for transportation and disposal. If this is not possible, the soil will be staged for loading. No personnel shall be allowed in the excavation.

3.2.3.1 Soil Staging Areas

In the event the soil must be staged, the soil will be placed on polyethylene (PE) sheeting. The stockpile will be covered with PE to prevent exposure to rainfall, and the cover will be anchored with sandbags.

It is anticipated that the samples from the investigation can be used for waste characterization. In the event this is not possible and the soil must be staged, one composite waste characterization sample will be collected from the stockpile and analyzed for the parameters presented in Table 3-1.

3.2.3.2 Soil Confirmation Sampling

Upon removal of the soil from the excavation, one composite sample will be collected from the floor of the excavation. One sample will also be collected from each wall of the excavation. Sample locations are presented in Figure 3-1. All samples will be sent to an off-site laboratory for analysis of the parameters presented in Table 3-1. Samples are not anticipated from the sidewalls of the excavation since previous sampling and analytical results were used in delineating the area of contamination.

In the event a soil sample exceeds the clean up goals presented in the Corrective Measures Design, the associated area of the excavation will be overexcavated approximately 1 foot and resampled. All additional samples will also be sent off site for analysis. This process of overexcavation and resampling will continue until all sample detections are below remediation goals.

3.2.3.3 Soil Disposal

The phthalate-contaminated soils will be transported to a permitted facility for disposal. The disposal facility will be identified prior to mobilization.

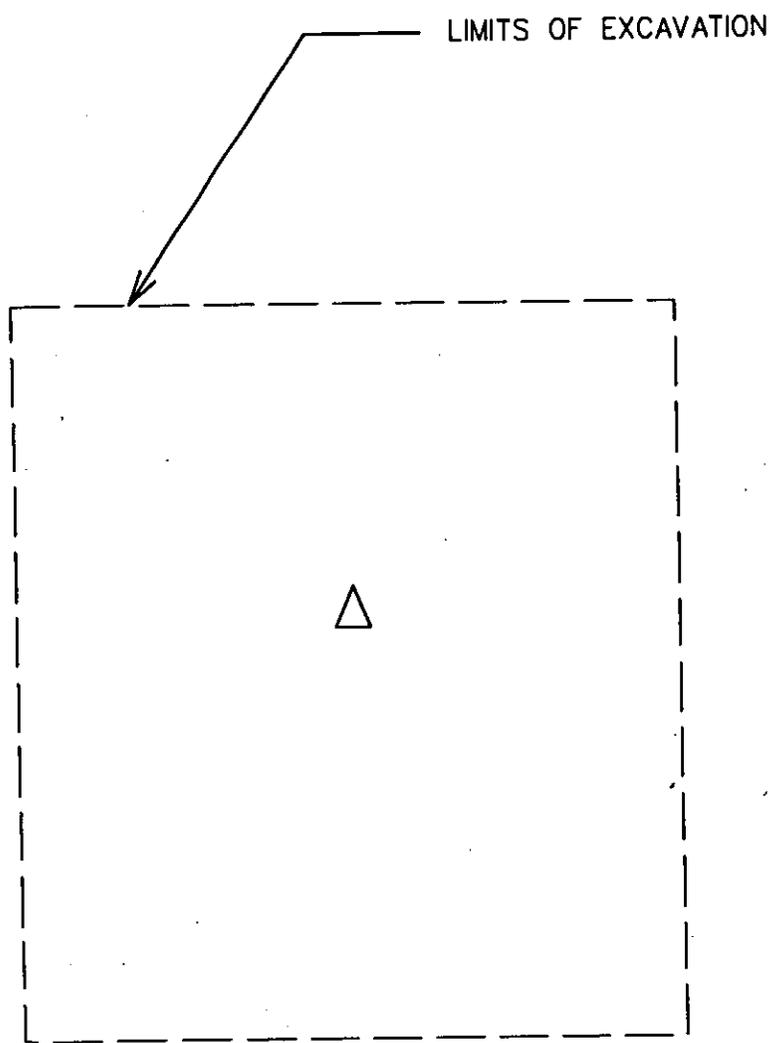
All nonliquid cleaning materials and PPE waste, including nonporous surfaces and other nonliquid materials such as rags, gloves, booties, and similar materials resulting from decontamination may be disposed of along with excavated soil or disposed separately as construction debris.

3.2.4 Restoration

Upon receipt of analytical results that indicate all detections are below cleanup criteria, the site will be backfilled with certified clean soil from an off-site source. All backfill shall meet the specifications of the landfill cover. Backfill will be placed in 6-inch lifts and compacted to 90

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| 05/26/00 | DRAWN BY:D.HALL | dhall | ENGR. CHCK. BY:T. CLARK | PROJ. MGR.:W. CARTER | PROJ. NO.: 774902 |

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NOTES:
1. FIGURE NOT DRAWN TO SCALE

LEGEND:

△ FLOOR SAMPLE LOCATION

FIGURE 3-1
CONFIRMATION SOIL SAMPLE
LOCATIONS
PHTHALATE EXCAVATION SITE

CARSWELL AFB NAS FORT WORTH
FORT WORTH, TEXAS

Table 3-1

Analytical Parameters for Demolition and Associated Activities at Carswell AFB

| Parameters | Analytical Method | Matrix | No. of Sample Points | No. of Events/Intervals | No. of Field Samples | Field Duplicate (10%) | MS* (5%) | MSD* (5%) | Trip Blank (1/cooler) | Equipment Blank (1/event) | Reporting Level | Turn Around Time Required | Total No. of Samples |
|-------------------------------|------------------------------|--------|----------------------|-------------------------|----------------------|-----------------------|----------|-----------|-----------------------|---------------------------|-----------------|---------------------------|----------------------|
| Waste Characterization | PCBs | Soil | 4 | 1 | 4 | 0 | 0 | 0 | 0 | 1 | IV | 14 Day | 5 |
| | PCBs | Solid | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | IV | 14 Day | 3 |
| | PCBs | Oil | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | IV | 14 Day | 2 |
| Site Confirmation | Bis (2-ethylhexyl) phthalate | Soil | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | IV | 14 Day | 1 |
| | PCBs | Solid | 5 | 1 | 5 | 1 | 1 | 1 | 0 | 0 | IV | 14 Day | 6 |

Data reporting for Annual testing is to be Level IV.

* MS/MSDs are considered internal quality control (QC) samples and are not included in the "Total Number of Samples" column. There will be no charge for the analysis of MS/MSD samples.

percent standard proctor. The site will be seeded prior to demobilization, if the construction of the landfill cover will not be started within one month.

3.3 Transformer and Electrical Switch Gear Removal Action

The following sections discuss the procedures to be utilized in removing the abandoned transformer and electrical switch gear, which is adjacent to the former radar building at Landfill LF-04. Appendix B presents photographs of the abandoned transformers, the electrical switch gear, and the associated concrete pad foundations.

The Base Recycling Coordinator, Paul Bailey, will be contacted and offered the opportunity to obtain the electrical switch gear and transformer before removing the equipment. If Mr. Bailey does not obtain the electrical switch gear, it will be dismantled and disposed of properly. In the event Mr. Bailey does not obtain the transformer, it will be removed and disposed according to the following sections.

3.3.1 Permitting

All appropriate permits, including dig permits, utility clearances, etc., will be obtained prior to initiating removal activities. IT will coordinate with local utility companies to ensure that utilities are marked and properly disconnected prior to beginning work. The transformer and electrical switch gear will be checked to verify they have been de-energized prior to beginning work.

3.3.2 Waste Characterization Sampling (Transformer)

Prior to removal activities, a sample will be collected from the transformer contents for waste disposal characterization. The sample will be sent to an off site laboratory for analysis of the parameters presented in Table 3-1.

3.3.3 Transformer Contents Removal and Disposal

Before removing transformer contents, the transformer will be inspected for the presence of a label identifying the contents of the transformer.

In accordance with Title 40, Code of Federal Regulations [CFR] Part 761.60, free-flowing liquid contents of the transformer will be drained and contained in U.S. Department of Transportation (DOT)-approved 55-gallon drums for disposal. The transformer will be flushed with a decontamination solvent (i.e. kerosene) and allowed to stand for at least 18 continuous hours. After a period of at least 18 hours, the decontamination solvent will be thoroughly drained and contained in 55-gallon drums for disposal. It is anticipated that the transformer contents and

decontamination solvent will be transported to a permitted TSCA chemical waste landfill for disposal.

3.3.4 Transformer Carcass Removal and Disposal

After the decontamination solvent is thoroughly flushed from the transformer, the transformer carcass will be lifted and secured on a wooden pallet in the upright position. It is anticipated that the transformer carcass will be transported to a permitted chemical waste landfill for disposal. Any steel members or other appurtenances associated with the transformer that conflict with the removal of the transformer, demolition of the concrete, or removal of the soil would likewise be removed. Such members or appurtenances will be cut off at the ground and disposed as construction debris.

3.3.5 Electrical Switch Gear Removal and Disposal

Once the electrical switch gear is removed from service, it will be removed and disposed at the appropriate disposal facility.

3.4 Concrete Pad Removal Action

The following procedures will be utilized in removing two concrete transformer pads, two concrete building slab foundations, electrical switch gear concrete foundation, and the antenna concrete foundation. The concrete transformer pad removals will require sampling activities to determine disposal options for all associated materials (i.e., concrete, soil, etc.) in the event of PCB contamination.

The building, antenna, and electrical switch gear slab foundations will be removed and disposed as construction debris. The building slabs and associated cross pillars will be removed to approximately two feet below ground surface. The cross pillars of the slabs are attached to piers which are approximately two feet below ground surface. The piers will not be removed.

3.4.1 Permitting

All appropriate permits, including dig permits, hot work permits, utility clearances, etc., will be obtained prior to initiating RA activities. IT will coordinate with local utility companies to ensure utilities are marked and properly disconnected prior to beginning work.

3.4.2 Waste Characterization Sampling (Transformer Concrete Pads)

Samples will be collected from the transformer concrete pads for waste disposal characterization. Concrete chip samples will be collected from areas of visual staining. Where no visual staining is evident, one chip sample will be collected from the center of each transformer concrete pad.

In the case of the transformer concrete pad on which the existing transformer is located, one concrete chip sample will be collected from beneath the transformer.

Waste characterization concrete samples (chip samples) will be collected prior to concrete demolition. Waste characterization sampling performed prior to concrete demolition will allow determination of disposal facility alternatives and permit direct loading for transportation and disposal.

3.4.3 Concrete Demolition and Disposal

Each concrete pad will be cut or scored into sections measuring approximately 3-by-3- feet. Measures will be taken to minimize the amount of dust generated, thus minimizing the potential for airborne contamination. Measures may include a light mist or spray of water over the area being sawed or scored and a sweeping compound to control dust already generated.

The concrete building slab foundations and associated cross pillars will be removed to approximately two feet below ground surface.

It is anticipated the concrete rubble and steel reinforcement debris will be transported to a permitted facility for disposal.

3.4.4 Soil Excavation and Disposal (Transformer Concrete Pads)

The soil surrounding and below each transformer concrete pad will be excavated as determined by the results of the soil characterization sampling. Characterization samples will be collected 1 foot beyond each side of the transformer concrete pads and analyzed for the parameters presented in Table 3-1. Visually stained areas will also be excavated. The excavated PCB-contaminated soils will be loaded directly to the shipping containers and sealed to prevent the entry of rainwater. In the event that soil must be stockpiled, the soil will be placed on PE sheeting. The stockpile will be covered with PE to prevent exposure to rainfall, and the cover will be anchored with sandbags.

The PCB-contaminated soils will be transported in sealed containers to a TSCA permitted facility for disposal.

All nonliquid cleaning materials and PPE waste, including nonporous surfaces and other nonliquid materials such as rags, gloves, booties, other disposal PPE, and similar materials resulting from decontamination will be disposed of along with excavated soil.

3.4.5 Soil Confirmation Sampling (Transformer Concrete Pads)

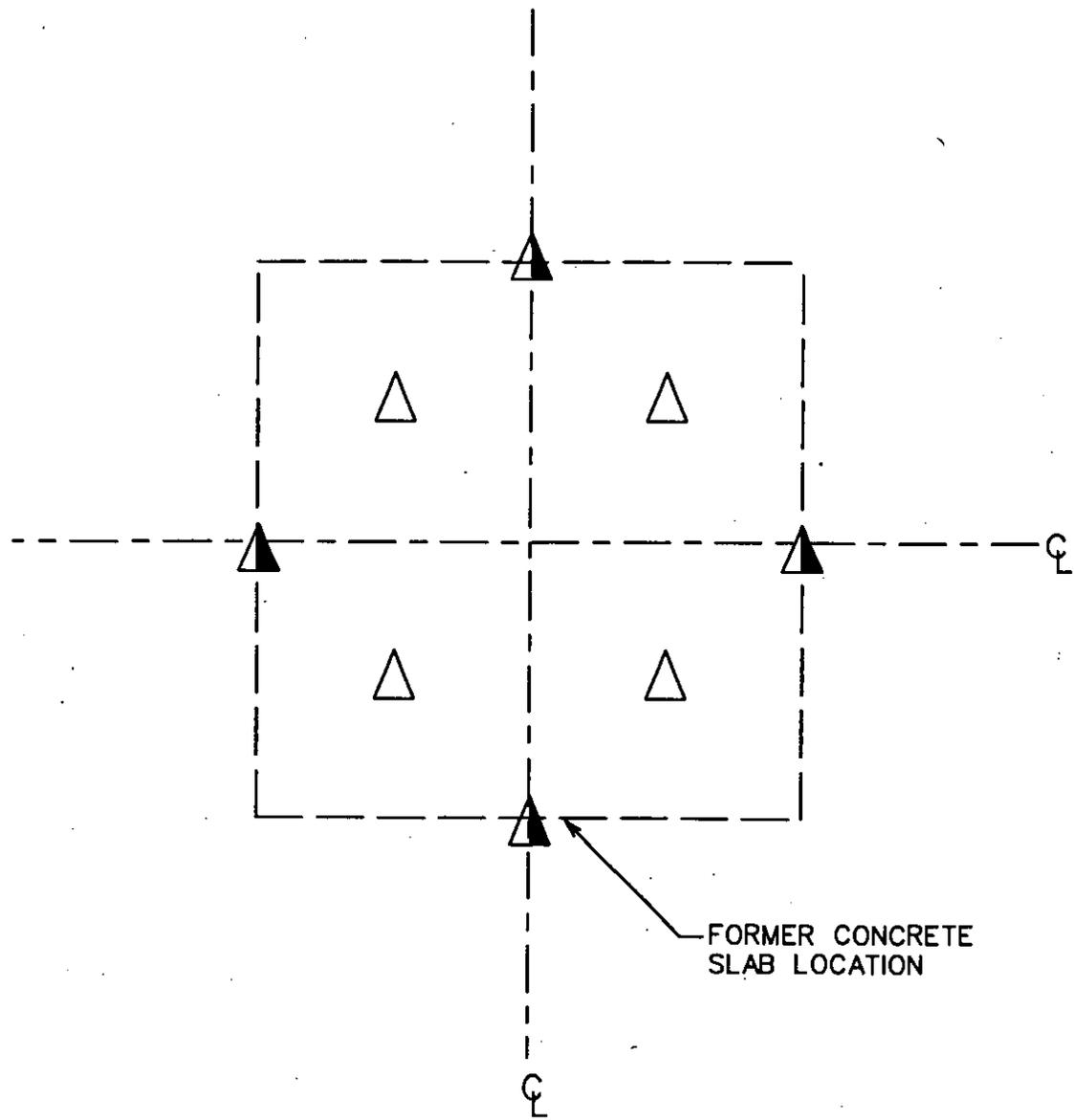
Upon removal of the soil excavation below each transformer concrete pad, one composite surface soil sample will be collected from beneath each transformer concrete pad and one soil sample will be collected from each wall of the excavation. Sample locations are presented in Figure 3-2. The samples will be sent to an off-site laboratory for analysis. If the analytical results for the samples are below the remediation goals presented in the Corrective Measures Design, backfilling operations will begin. However, should sample results exceed the remediation goals, the section of the excavation that corresponds to the elevated detection will be overexcavated (approximately 1 foot) and an additional confirmation sample will be sent off-site for analysis. This process of overexcavation and resampling will continue until all sample detections are below the remediation goal.

3.4.6 Site Restoration

When analytical results indicate that all detections are below cleanup criteria, the site will be backfilled with certified clean soil from an off-site source. All backfill will meet the specifications of the landfill cover. Backfill will be placed in 6-inch lifts and compacted to 90 percent standard proctor. The site will be seeded prior to demobilization, if temporary erosion control measures are required.

| | | | | | |
|----------|------------------------|-------------------------|----------------------------|-----------------------|------------------------|
| 03:46:40 | STARTING DATE: 4/19/99 | DATE LAST REV: 05/26/00 | DRAFT. CHCK. BY: C. TUMLIN | INITIATOR: J. HARRILL | DWG. NO.: 774902ES.004 |
| 05/26/00 | DRAWN BY: R. SPIRES | dhall | ENGR. CHCK. BY: J. HARRILL | PROJ. MGR.: BOWHOLTZ | PROJ. NO.: 783146 |

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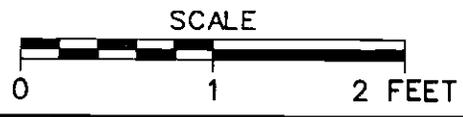
FORMER CONCRETE SLAB LOCATION

LEGEND

- FLOOR SOIL SAMPLE LOCATION (TO COMPRISE ONE COMPOSITE SAMPLE)
- SIDEWALL SOIL SAMPLE LOCATION

FIGURE 3-2
CONFIRMATION SOIL SAMPLE LOCATIONS FOR CONCRETE TRANSFORMER PADS

CARSWELL AFB NAS FORT WORTH
FORT WORTH, TEXAS



4.0 References

IT Corporation (IT), 1998, Naval Air station (NAS) Fort Worth Joint Reserve Base Carswell Field, Texas, Technical and Business Proposal for Remedial Actions, March 1998.

Appendix A

Required Permits and Notifications

NOTE: CIRCLE ITEMS THAT ARE AMENDED
NOTIFICATION# _____



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1) Abatement Contractor: _____ TDH License Number: _____
Address: _____ City: _____ State: _____ Zip: _____
Office Phone Number: () _____ Job Site Phone Number: () _____
Site Supervisor: _____ TDH License Number: _____
Site Supervisor: _____ TDH License Number: _____
Trained On-Site NESHAP Individual: _____ Certification Date: _____

Demolition Contractor: _____ Office Phone Number: () _____
Address: _____ City: _____ State: _____ Zip: _____

2) Project Consultant or Operator: _____ TDH License Number: _____
Mailing Address: _____
City: _____ State: _____ Zip: _____ Office Phone Number: () _____

3) Facility Owner: _____
Attention: _____
Mailing Address: _____
City: _____ State: _____ Zip: _____ Owner Phone Number: () _____

4) Description or Facility Name: _____
Physical Address: _____ County: _____
City: _____ Zip: _____ Facility Phone Number: () _____
Facility Contact Person: _____
Description of Area/Room Number: _____
Prior Use: _____ Future Use: _____

Age of Building/Facility: _____ Size: _____ Number of Floors: _____
School (K -12): YES NO

5) Type of Work: Demolition Renovation (Abatement) Annual Consolidated
Work will be during: Day Evening Night Phased Project
Description of work schedule: _____

6) Is this a Public Building? YES NO Federal Facility? YES NO Industrial Site? YES NO
NESHAP-Only Facility? YES NO Is Building/Facility Occupied? YES NO

7) Notification Type CHECK ONLY ONE
 Original (10 Working Days) Cancellation Amendment Emergency/Ordered

If this is an amendment, which amendment number is this? ____ (Enclose copy of original)

If an emergency, who did you talk with at TDH? _____ Emergency#: _____

Date and Hour of Emergency (HH/MM/DD/YY): _____

Description of the sudden, unexpected event and explanation of how the event caused unsafe conditions or would cause equipment damage (computers, machinery, etc.): _____

8) Description of procedures to be followed in the event that unexpected asbestos is found or previously non-friable asbestos material becomes crumbled, pulverized, or reduced to powder: _____

9) Was an Asbestos survey performed? YES NO Date: / / TDH Inspector License No: _____
Analytical Method: PLM TEM Assumed TDH Laboratory License No: _____
(For TAHPA (public building) projects: an assumption must be made by a TDH Licensed Inspector)

10) Description of planned demolition or renovation work, type of material, and method(s) to be used: _____

11) Description of work practices and engineering controls to be used to prevent emissions of asbestos at the demolition/renovation: _____

ALL applicable items in the following table must be completed: IF NO ASBESTOS PRESENT CHECK HERE

| Asbestos-Containing Building Material Type | Approximate amount of Asbestos | | Check unit of measurement | | | | | |
|--|--------------------------------|--------------|---------------------------|------|-------|------|-------|------|
| | Pipes | Surface Area | Ln Ft | Ln M | SQ Ft | SQ M | Cu Ft | Cu M |
| RACM to be removed | | | | | | | | |
| RACM NOT removed | | | | | | | | |
| Interior Category I non-friable removed | | | | | | | | |
| Exterior Category I non-friable removed | | | | | | | | |
| Category I non-friable NOT removed | | | | | | | | |
| Interior Category II non-friable removed | | | | | | | | |
| Exterior Category II non-friable removed | | | | | | | | |
| Category II non-friable NOT removed | | | | | | | | |
| RACM Off-Facility Component | | | | | | | | |

13) Waste Transporter Name: _____ TDH License Number: _____
 Address: _____ City: _____ State: _____ Zip: _____
 Contact Person: _____ Phone Number: () _____

14) Waste Disposal Site Name: _____
 Address: _____ City: _____ State: _____ Zip: _____
 Telephone: () _____ TNRCC Permit Number: _____

15) For structurally unsound facilities, attach a copy of demolition order and identify Governmental Official below:
 Name: _____ Registration No: _____
 Title: _____
 Date of order (MM/DD/YY) ____ / ____ / ____ Date order to begin (MM/DD/YY) ____ / ____ / ____

16) Scheduled Dates of Asbestos Abatement (MM/DD/YY) Start: ____ / ____ / ____ Complete: ____ / ____ / ____

17) Scheduled Dates Demolition/Renovation (MM/DD/YY) Start: ____ / ____ / ____ Complete: ____ / ____ / ____

**** Note: If the start date on this notification can not be met, the TDH Regional or Local Program office *Must* be contacted by phone prior to the start date. Failure to do so is a violation in accordance to TAHPA, Section 295.61. ****

I hereby certify that all information I have provided is correct, complete, and true to the best of my knowledge. I acknowledge that I am responsible for all aspects of the notification form, including, but not limiting, content and submission dates. The maximum penalty is \$10,000 per day per violation.

 (Signature of Building Owner/ Operator or Delegated Consultant/Contractor) (Printed Name) (Date) (Telephone)
 _____ () _____
 (Fax Number)

TEXAS DEPARTMENT OF HEALTH
EXCHANGE BUILDING, SUITE N320
8407 WALL STREET
AUSTIN, TX 78754
PH: 512-834-6600, 1-800-572-5548

521 26

Faxes are not accepted

Faxes are not accepted

Form APB#5, dated 12/08/98. Replaces TDH form dated 09/15/97. For assistance in completing form, call 1-800-572-5548



The Texas Department of Health Demolition/Renovation Notification form combines the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Subpart M (NESHAP) and the Texas Asbestos Health Protection Act (TAHPA). Both of these regulations require that written notification be submitted before beginning renovation projects which include the disturbance of any asbestos-containing material in a building or facility or before the demolition of a building or facility, even when no asbestos is present. This form must be used to fulfill this requirement. Please call either 512-834-6610 or 1-800-572-5548, or your local regional office for assistance in completing this form.

This form must be used whether you are notifying in accordance with NESHAP, TAHPA, or both. The notification form must be postmarked at least 10 working days (not calendar days) prior to the project start date (except for emergencies or ordered demolitions). Notifications which do not meet the 10-day requirement or are incomplete are considered to be "improper" and may result in enforcement proceedings. If an item on the form is not applicable to the project in question, you must write "N.A." in that space, which shows that you have considered the item, but it does not apply to your operation.

INSTRUCTIONS

- 1) The contractor's name, address, and office phone number must be provided. The Texas Department of Health (TDH) Contractor License Number is required if the project falls under TAHPA. The contractor's address must match that which was submitted on the TDH license application, if the company has more than one office. The site supervisor must be stated and the TDH Supervisor License Number is only required for public building projects as defined in TAHPA. Two site supervisors may be listed, if there are two work shifts, etc. For a demolition in which the building does not contain asbestos, or in which the non-friable asbestos will not be removed prior to demolition, write "N.A." in the spaces provided for the abatement contractor information.

The trained on-site NESHAP individual and the certification date must be stated for NESHAP projects. The site supervisor and the trained on-site NESHAP individual may be the same person, if qualified. List the individual's name in both spaces. Since the TDH License satisfies the requirements for NESHAP training, provide the supervisor's name and TDH License Number and write "N.A." in the spaces for the NESHAP individual and certification date.

The demolition contractor's name, address, and office phone number must be provided for all demolition projects.

- 2) A TDH licensed project consultant is required to design all projects in public buildings which involve asbestos quantities greater than 160 sq. ft., 260 ln. ft., or 35 cu. ft., in accordance with TAHPA. Provide all other information. The consultant's address must match that which was submitted on the TDH license application, if the company has more than one office. If the project is not in a public building, the general contractor or any other person who controls the site, may be listed as the "operator."

the owner of the building and the billing address for the invoice will be obtained from the information that is provided in this section. The company's name should be written on the first line. A specific person's name should be written following "Attention . . ." on the second line.

Provide the name of the building or an identifying description. Example: vacant warehouse. A physical address must be provided (not a post office box) and a sufficient description must be provided to locate the site in the event that the address alone is inadequate. The ZIP CODE for the building MUST be provided. Detailed information must be provided in all spaces, including the age and size of the building or facility. The name of a contact person at the facility MUST be provided for inspection purposes, even if the building or facility is vacant. Check whether or not the facility is a school, kindergarten through grade 12.

- 5) The type of work must be checked. An abatement project (disturbance of asbestos-containing material) is marked as a renovation. A project that includes the removal of load-bearing structural members is marked as a demolition. An annual consolidated notification can be submitted for a calendar year of January 1 through December 31. The annual notification will predict all asbestos O&M operations and all small, separate abatement projects that are less than 160 square feet, 260 linear feet or 35 cubic feet. The predicted, additive amount of asbestos to be removed or stripped during the one year period must be listed in the chart in Section 12.

The phased project classification can be added to the type of work; it cannot be marked alone. (The project may be a phased renovation or a phased demolition - the phased box AND either the renovation box or demolition box must be checked). A description of the phased project schedule must be sent to the appropriate TDH or Local Program inspector. The TDH policy regarding phased projects must be strictly followed, if that box is checked. (A copy of the phased project policy letter can be obtained by calling any TDH inspector). The scheduled work time must be checked. A description of the work schedule must be provided, if the schedule varies from that listed as the project dates (Section 16 and/or Section 17). Example: If a project is scheduled to last one month, but the contractor will not be working on the weekends, a statement should be included that say AWorking Monday - Friday. The statement must be accurate; an inspection will be based upon the provided information.

- 6) The type of building/facility must be checked. Only one box may be checked. An example of a NESHAP-Only Facility would be a house that was being demolished as part of a Texas Department of Transportation right-of-way project or a pipeline. Check whether the building/facility is occupied (or vacant).
- 7) The notification type must be checked. An original must be postmarked 10 working days (Mon. - Fri.) prior to the start date. (The start date is actually no sooner than the eleventh working day from the postmark). A cancellation must be received 24 hours or more prior to the scheduled start date. If asbestos abatement or demolition will begin earlier than scheduled, an amendment must be received at least 10 working days prior to the new start date. If the start date is to be delayed, the amendment must be received 24 hours or more prior to the scheduled original start date. An amendment is required for any stop dates which change by more than one work day for each week for which the project has been scheduled. An amendment must be submitted for any changes from the original notification and must be provided to TDH no less than 24 hours prior to the change, including stop date changes. Enclose a

The appropriate TDH Regional or Local Program inspector should be contacted in the event of an emergency. All information regarding an emergency must be provided. If the demolition is ordered, then all information in Section 15 must be provided. The appropriate TDH Regional or Local Program inspector should be notified, by telephone or in person, prior to beginning the ordered demolition.

- 8) Provide adequate information to demonstrate that appropriate actions have been considered and can be implemented to control asbestos emissions adequately, including conformance with applicable work practice standards. This section must be completed, even if no asbestos was discovered in the survey.
- 9) An asbestos survey must be performed prior to any demolition. A TDH licensed inspector must perform the inspection if the project is in a public building. Provide the TDH Inspector License Number, if required. If the survey was performed in a public building prior to January 1993, or if the project is not in a public building, "N.A." should be placed in the space for the TDH License Number. The date that the survey was performed must be provided. The analytical method used to detect the presence of asbestos must be checked. TAHPA requires that a TDH licensed laboratory perform the analysis of samples from public buildings. Provide the TDH Laboratory Number if the project is in a public building.

The assumption of asbestos-containing material (for renovations only) in a public building must be done by a TDH licensed inspector. The Ayes@ box would be checked, the date that the survey (assessment) was performed would be provided, the TDH Inspector License Number would be provided, and the Aassumed@ analytical method box would be checked on the notification form for an assumption of any asbestos-containing materials that would be abated during a renovation project. When an assumption of asbestos-containing material is done in a non-public building, all of the above must be completed except for the TDH Inspector and Laboratory License Numbers (not required). An assumption cannot be made prior to a floor tile abatement project that will be using the Resilient Floor Covering Industry methods and exemptions.

For projects that involve only the abatement of non-friable asbestos-containing flooring materials, using the Resilient Floor Covering Industry (RFCI) methods, the survey does not have to be performed by a TDH licensed inspector and the required sample analysis does not have to be performed by a TDH licensed laboratory. TAHPA **REQUIRES** that the tile and mastic be analyzed prior to removal. The date and analytical method must be provided. A statement that RFCI methods will be utilized must be provided in Section 10 and the amount must be listed under AInterior Category I non-friable removed@ ACM material type in Section 12.

- 10) Include in this section the demolition and renovation techniques to be used and a description of the areas and types of facility components which will be affected by this work. The specific type of asbestos-containing building material that will be abated must be listed. Example: Vinyl asbestos-containing floor tiles to be removed by wet methods designed by the Resilient Floor Covering Institute.
- 11) Describe the work practices and engineering controls selected to ensure compliance with the

control techniques. Example: describe the glove-bag procedure, including the use of the HEPA vacuum.

- 12) The chart must be completed, unless no asbestos is present in the building (to be demolished). If no asbestos is present (as revealed by the survey), check the box provided. Category I non-friable ACM includes floor tile, when removed intact, floor tile mastic, gaskets, and roofing material. Category II non-friable ACM includes transite siding. Use the appropriate column to designate whether the ACategory I or Category II non-friable ACM to be removed@ is located on the interior or exterior of the building. If Category I or II materials are to be sanded, ground, abraded, crumbled, pulverized, reduced to powder, or have the potential to become friable because of the abatement procedures, then list them with RACM. A Category I and II NOT removed@ would be listed for demolitions or for enclosure or encapsulation in a public building. (Transite does not remain Category II during demolition and must be removed prior to demolition). ARACM NOT removed@ would be listed for enclosure or encapsulation in a public building or in the event of an ordered demolition. RACM Off-Facility Component (material that is not attached to the facility) must only be measured in cubic feet or cubic meters. All other material must be measured in linear feet or meters (pipes) or in square feet or meters (surface material). If an abatement will be performed in a portico or a mechanical system that conditions the inside of a public building, list the amount as AInterior Category I non-friable removed, Interior Category II non-friable removed, or RACM to be removed@, depending on the type of ACM that will be removed.
- 13) Provide all information for the waste transporter. TAHPA requires that a TDH Licensed Transporter transport all ACM from the public building removal site to the waste disposal site. Provide the license number if the project is a public building. If two waste transporters are utilized, one to transport to a holding site and one to transport from the holding site to the waste disposal site, list the first transporter on the notification. The waste manifest must contain information for both transporters. For projects that involve only the abatement of non-friable asbestos-containing flooring materials from a public building, the waste transporter does not have to have a TDH Transporter License.
- 14) Provide all information for the waste disposal site. State regulations require that all waste disposal sites be permitted by the Texas Natural Resource Conservation Commission (TNRCC), including disposal sites located at industrial facilities. Provide the permit number.
- 15) All information must be provided if a building was ordered to be demolished. To qualify for a waiver of the 10-day notification requirement, the building ***MUST*** be determined to be structurally unsound and in danger of imminent collapse by a qualified person, as defined in the NESHAP rules. Attach a copy of the demolition order to the notification.
- 16) If asbestos material is to be removed before a building is to be demolished or renovated, enter the removal dates (start and completion) in this section. Asbestos abatement work includes any activity which will disturb asbestos material. The asbestos abatement activity stop date is the date upon which visual and/or air monitoring clearance has been completed or containment materials have been removed. In no event shall an abatement start or be completed on a date other than the dates entered in this section. Refer to Section 7 for information on notifying of any change in the start and completion dates.
- 17) Enter the scheduled dates for the start and completion of the building demolition. In no event shall a demolition start or be completed on a date other than the dates entered in this section. Refer

building will not be demolished, but an abatement will be performed, the dates of the total renovation (remodeling) project can be provided in this section. The notification will remain active, if the renovation dates are provided.

The notification may only be signed by the legal owner, his designated legal representative, the operator of the site, the licensed abatement contractor or licensed consultant. TAHPA allows for this task to be delegated to the contractor or consultant IN WRITING, however, the responsibility continues to be shared with the owner. The name must also be printed and the date and telephone number must be provided. The signature must be original, a copied signature will not be accepted.

MAIL TO:

ASBESTOS NOTIFICATION SECTION
TOXIC SUBSTANCES CONTROL DIVISION
TEXAS DEPARTMENT OF HEALTH
EXCHANGE BUILDING, SUITE N320
8407 WALL STREET
AUSTIN, TEXAS 78754

An invoice for the notification fee will be sent to the facility owner after the notification has been received by TDH.

DO NOT submit the fee with the notification.

Revised 12/08/98

Appendix B

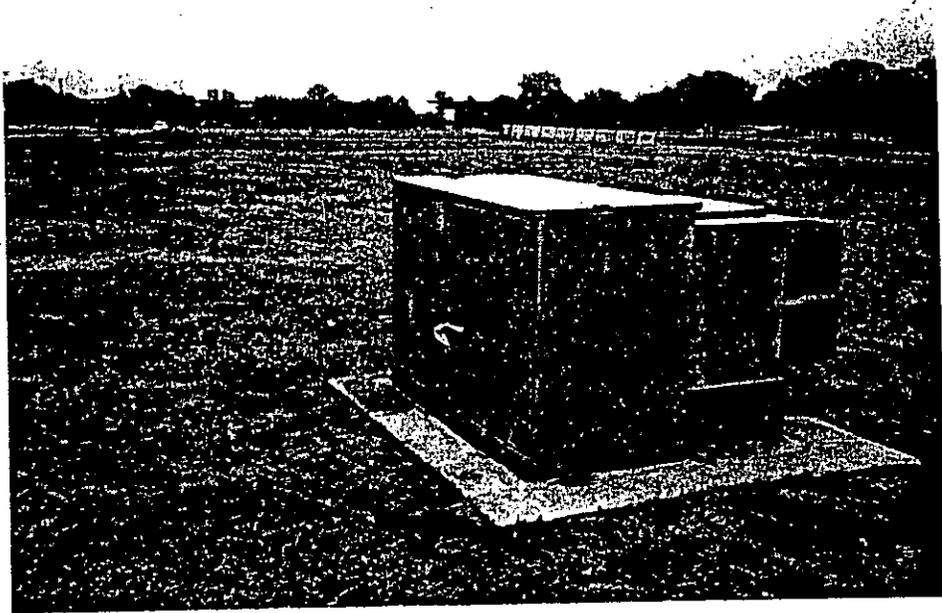
Photographs



Corners of phthalate contaminated area



Photograph of building to be demolished at Carswell AFB LF-04



**LF-04 TRANSFORMER EAST OF
RADAR STATION BUILDING**



**LF-04 LOOKING SOUTHEAST TOWARD
RADAR STATION BLDG FROM MAIN GATE**



**LF-04. RADAR STATION BUILDING ON LEFT.
TRANSFORMER AND RADAR TOWER PADS ON RIGHT.
EMERGENCY GENERATOR UST LOCATED BY
ELECTRICAL PANELS BY DRUMS.**



**LF-04 LOOKING NORTH TOWARD
HGL TERT PIT**



LF-04 LOOKING NORTH FROM SOUTH FENCE



**LF-04 LOOKING SOUTH TOWARD
ABANDONED RADAR STATION**

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE