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NAS FORT WORTH  
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DRAFT MEETING MINUTES FROM RESTORATION ADVISORY BOARD MEETING FROM 17  
NOVEMBER 2005 WITH ATTACHMENTS NAS FORT WORTH TX  
11/17/2005  
RESTORATION ADVISORY BOARD



CARSWELL AFB  
TEXAS

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ADMINISTRATIVE RECORD  
COVER SHEET

AR File Number 784

## **CARSWELL/PLANT 4 RESTORATION ADVISORY BOARD MEETING**

### **DRAFT Summary Minutes of November 17, 2005 Regular Quarterly Meeting**

A regular meeting of the Carswell/Plant 4 Restoration Advisory Board (RAB) was held November 17, 2005 at the Lockheed Martin Recreation Association Ranch House, 3400 Bryant Irvin Road. The RAB meeting began at 6:00 p.m.

#### **AGENDA**

Welcome/Introductions/Minutes

Westworth Redevelopment Authority Update (Leland Clemons)

Action Items

Air Force Plant 4 (George Walters)  
Program Update

Carswell Off-Base (Norma Landez)

- Air Force Real Property Agency Program Update
  - SWMU 66 Sanitary Sewer System RCRA Facility Investigation
  - Carswell Weapons Storage Area EOD Clearance

RAB Meeting Schedule Reduction

RAB Charter Proposed Changes

Next Meeting Agenda

Open Discussion/Questions

Ms. Chris Baack, Community Co-Chairman, called the meeting to order. The minutes from the May 2005 RAB meeting were approved. No action items remain from the May 2005 meeting.

#### **WESTWORTH REDEVELOPMENT AUTHORITY**

Leland Clemons provided an update on the activities of the Redevelopment Authority. Mr. Clemons said that a lot of the things the Authority said they wanted to do have been accomplished. There is a new Wal-Mart and a new Sam's Club, both of which are the largest complex of their type in north Texas. While a lot of people may not want a Wal-Mart or a Sam's Club in their communities, these are located as far from residences as they can be in

air, it would be 100 to 1000 times below the levels set by the state of Texas. The system cost about two hundred thousand dollars a year to operate and maintain. The PRB was installed and is treating the groundwater, breaking down the TCE and costs nothing to operate.

With the success of the PRB, Mr. Walters thought to try a similar approach elsewhere. A pilot study wall made of carbon, wood and cotton gin was constructed. The wall is approximately 90 feet long, 2 feet wide and 10 feet deep. Mr. Walters said it does not appear to be working as well as he had hoped and may be due to not enough carbon. He said something more would be required. As it is only a pilot study, he has the time to continue to develop it as funds permit.

Mr. Walters touched briefly on Dense Non-aqueous Phase Liquids (DNAPL). TCE, being heavier than water, sinks to the bottom where it forms small pools on the bedrock. This is DNAPL. It will flow into any fractures and breaks in the bedrock which makes it difficult to get at. Cleanup of the fractures and breaks will be difficult and will be a long-term operation.

Mr. Walters next spoke about the PCB investigation. He said the Air Force had a handle on TCE at Plant 4 so the efforts of the investigation were turned towards PCBs. He explained that PCBs have been banned since 1978 but prior to that, PCBs were used in just about everything. They were used in oils and found in electric motors, water pumps, transformers, televisions, refrigerators, roofing tiles, and caulk to name just a few things. While PCB use is banned in the US they are still used in Asia. Samples taken in the Arctic indicate PCBs are even in polar bears.

In 1999, sampling was conducted at Lake Worth in the sediments and in the fish to determine the amount of PCBs. The Air Force will be talking with the City of Fort Worth about another round of fish sampling and hopefully the levels of PCBs will come down.

Mr. Walters briefly discussed the budget for upcoming years. He said first the war in Iraq had impacted all the budgets and now Hurricane Katrina had destroyed an Air Force Base in Mississippi. Because of this, his budget projections did not look good. He had thought that for FY 2008 the budget looked to improve but he is not sure that will happen now.

Mr. Walters responded to a question about the PCB investigation timeline. He said the sewer pipe study did not indicate any hotspots and he will have Lockheed prepare for more sampling. PCBs are ubiquitous, they are everywhere. A lot of cleanups around the country use the goal of 1000 ppb. At Plant 4, because of the lake and the fish, the goal is 160 ppb. We have to make sure that everything leaving the property is extremely low. Mr. Walters said he hoped Lockheed would be sampling in the spring. He asked the City of Fort Worth representatives if they had any sampling planned and they responded not in the near-term. Mr. Walters said he hoped that when they did their sampling they would let him know so he could work with them.

Mr. Walters concluded his presentation.

## **CARSWELL OFF-BASE**

### ***Program Update***

Ms. Norma Landez introduced herself as the Air Force Real Property Agency (AFRPA) Base Environmental Coordinator for the divested portion of the former Carswell Air Force Base (AFB). She began her presentation with the Weapons Storage Area. Ms. Landez said a survey had been conducted in 2004 for remaining radiation resulting from storage of radioactive materials. Bunker 8351 was found to have radiation levels above action levels and the appropriate safety measures had been taken. In January 2005, the top of the concrete floor was scabbled to determine the amount and depth of radiation. This indicated small hotspots. Ms. Landez said the Air Force is in process of compiling the report and she is pushing for a December or January 2006 submission to the US Environmental Protection Agency (USEPA).

Ms. Landez said the Sanitary Sewer System investigation was started in 1997 and a lot of work had been conducted. The last round of work was in 2004 to fill in the remaining data gaps. All of the data had been evaluated and the system meets the requirements to be closed. The report was submitted to the regulators in November for review and approval.

In February 2004, the 5-year Review was announced to the RAB and the public. The review was conducted and the report prepared. Currently the report is at HQ AFRPA for internal review and approval. Ms. Landez anticipates it will be complete in December 2005. When approved, the report will be placed in the Administrative Record.

At the Weapons Storage Area, Ms. Landez had hoped to transfer the areas 247 acres with a residential clearance. However, the geophysical survey conducted in May 2004 indicates potential munitions associated with past disposal activities need to be addressed. Further geophysical surveys and potential intrusive investigation will be conducted determine what was found. Earth Tech has been clearing brush and trees in preparation for further work in the area. An Explosives Safety Submission has been submitted for approval. As soon as that approval is given, work will begin. Ms. Landez hopes to begin fieldwork by early spring 2006. Prior to work beginning, there will be a public notice in the paper and possibly a public meeting as well. The Air Force will also coordinate with local police and fire departments as a precaution.

Ms. Landez addressed additional projects she had been working on. She said the Focused Feasibility Study on the PRB at the golf course was submitted in June 2005 and that she expected EPA approval within the next month. This will help the Air Force transfer the remaining golf course property.

Ms. Landez is developing as Explanation of Significant Differences for Mr. Walters on the Plant 4 Record of Decision.

Ms. Landez said she will prepare an Operating Properly and Successfully determination document for all installed treatment systems that impact the southern portion of the TCE plume from Plant 4. The purpose of this document is to show the EPA that all systems are

operating properly so the Air Force can transfer the property with certain restrictions. The restrictions will require the property be used for commercial/industrial purposes (no residential) and ensure the PRB and monitoring wells on the golf course are not disturbed.

Lastly, Ms. Landez said she was working on monitoring the golf course. To accomplish this Ms. Landez has combined efforts with Mr. Walters to do some of the things needed to transfer the property. AFRPA has provided funds for Mr. Walters' efforts.

### ***Property Transfer***

Ms. Landez said there are two parcels remaining for transfer. The first is 187 acres of the golf course. As had been discussed, Ms. Landez met with the EPA and the state of Texas in January 2004 to discuss a path forward. The Focused Feasibility Study was submitted in June 2005; the Explanation of Significant Differences of the Plant 4 ROD will be prepared; and an Operating Properly and Successfully document will also be prepared to support the transfer. Land use restrictions will be placed on the property as well.

The second parcel is the 247 acre Weapons Storage Area. Remaining activities on the parcel include obtaining approval on the Bunker 8531 radiation survey and obtaining an Explosive Ordnance Clearance. Once these are complete, the parcel will be sold at a public sale, hopefully with a residential clearance.

Ms. Landez was asked how long before the property transfer would take place. She replied that assuming approval on all documents the transfer would be this time next year (late fall 2006).

Ms. Landez concluded her presentation.

### ***RAB MEETING SCHEDULE REDUCTION***

Ms. Baack, RAB Co-chair, introduced the topic of amending the RAB meeting schedule. She said the big projects were almost finished and more monitoring was taking place. She asked if any of the RAB members had any comments on this. Mr. von Kohn said he had been with the RAB since the beginning and felt a change to twice yearly would be sufficient at this stage. He then made a motion that the RAB meet twice yearly. The motion was seconded by Mr. Hendrickson. The new meeting schedule was voted on and approved by the members in attendance. The discussion turned to what dates to hold the new meeting schedule. Given that the spring and fall sampling are conducted in April and October, a schedule of May and November was agreed upon. The May meeting date would be determined by the Air Force and the November meeting would be held during the third week of November. A notice to the RAB members not in attendance about the change will be sent out. Ms. Baack noted the meeting schedule change would need to be reflected in the charter.

### ***RAB CHARTER PROPOSED CHANGES***

The scheduled discussion of the RAB charter changes was postponed until the next meeting in order to include the meeting schedule changes. The proposed charter changes will be discussed at the RAB Executive Session in February and the next full RAB meeting will be held in May. The Executive Session is open to the public. Mr. Walters asked that the minutes be prepared and mailed out on the normal schedule as if there were a meeting in February.

### ***NEXT MEETING***

The next RAB meeting will be scheduled for May 2006. A date needs to be determined. The RAB meeting will be held at the Lockheed Martin Recreation Association Ranch House, 3400 Bryant Irvin Road, Fort Worth, Texas. In the interim, a RAB Executive Session is planned for February.

### ***OPEN DISCUSSION/QUESTIONS***

Ms. Darwin asked if the fish in Lake Worth were safe to eat. Mr. Walters said it depended on the type of fish. Catfish had PCBs in their tissue but crappie were below the detection limit. Mr. Sullivan, USEPA, said the Texas Department of Health set a fish consumption advisory, not a ban on eating the fish. The advisory is based on permitting eating a certain amount of fish over a given period of time based on the individual's body weight. Fish in Lake Worth did have PCB's in the tissue and that is the reason for the advisory. However, any questions on the lake advisory should be directed to the TCEQ, who issued the advisory.

Ms. Holmes, Air Force Public Affairs, made a brief announcement that a Certificate of Appreciation for Bill Olshefski had been prepared and signed by Lt. General William R. Loomey to show the Air Force's appreciation for the devotion and dedication shown by community members to the Restoration Advisory Boards. The certificate will be mailed to Mr. Olshefski.

The meeting was adjourned.

### ***IN ATTENDANCE (signed-in)***

#### ***Carswell On-Base***

Mike Hawkins, Public Affairs, AFCEE

#### ***Carswell Off-Base***

Norma Landez, Air Force Real Property Agency

Sonja Coderre, Air Force Real Property Agency

#### ***Air Force Plant 4***

George Walters, AFP 4 Project Manager, ASC, Wright Patterson Air Force Base

Estella Holmes, Public Affairs, Wright Patterson Air Force Base

*Texas Commission on Environmental Quality*

Tim Sewell  
Mark Weegar  
Ray Risner

*U.S. Environmental Protection Agency*

Robert Sullivan  
Noel Bennett

*Lockheed Martin*

Sarah Young  
Norma Robbins

*Community*

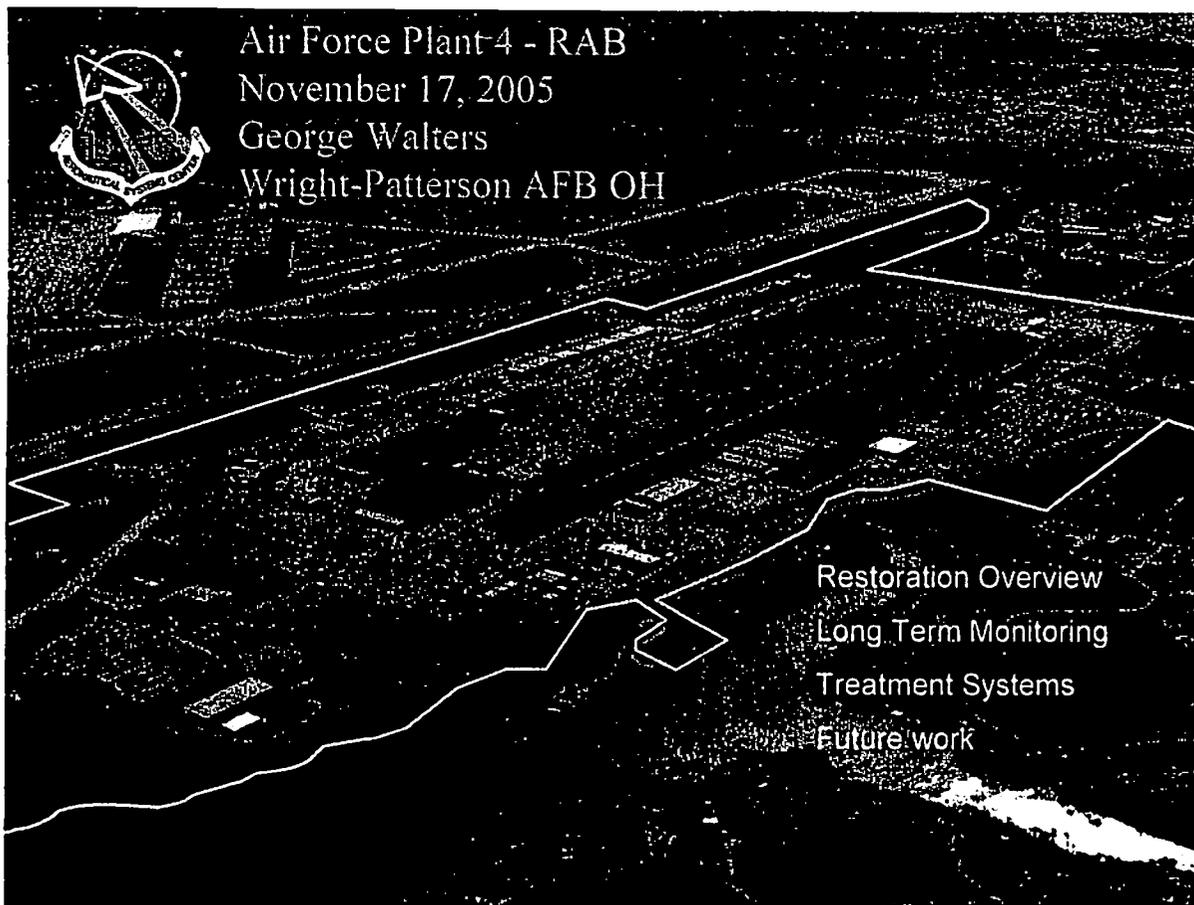
Chris Baack, RAB Cochair  
Greg Hendrickson, RAB Member  
D.W. Owen, RAB Member  
Ed von Kohn, RAB Member  
Jerry Zaskoda, Westworth Village  
Jamie Darwin, Westworth Historical Society  
Leland Clemons, Westworth Redevelopment Authority

*Air Force Contractors*

Audrie Medina, Booz Allen & Hamilton  
Barbara Nickerson, Freese & Nichols  
Dan Schultz, Earth Tech, Inc.  
Rick Wice, Shaw Group  
Gregg McGraw, Shaw Group

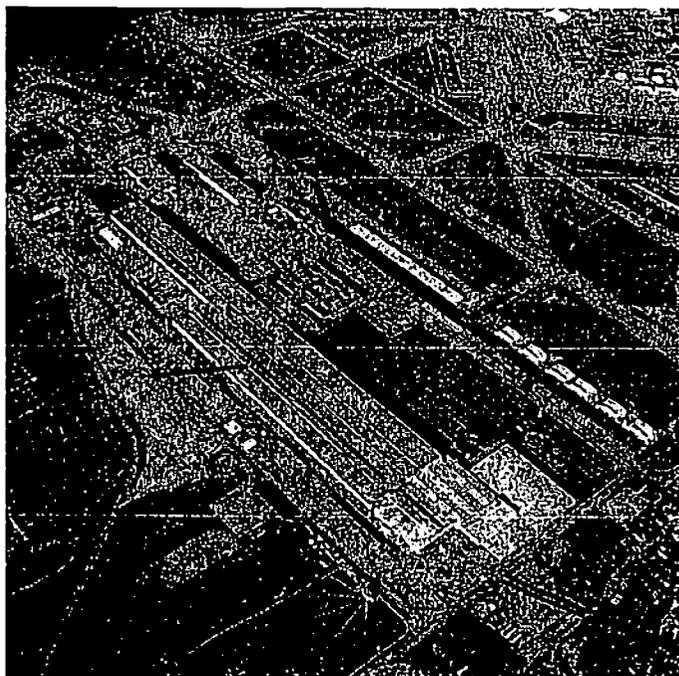
Comments/corrections regarding these meeting minutes should be sent to:

Mr. Gregory McGraw  
Shaw E&I, Inc.  
5050 Section Ave.  
Cincinnati, OH 45212  
Phone: (513) 782-4752  
Fax: (513) 782-4663  
e-mail: [greg.mcgraw@shawgrp.com](mailto:greg.mcgraw@shawgrp.com)

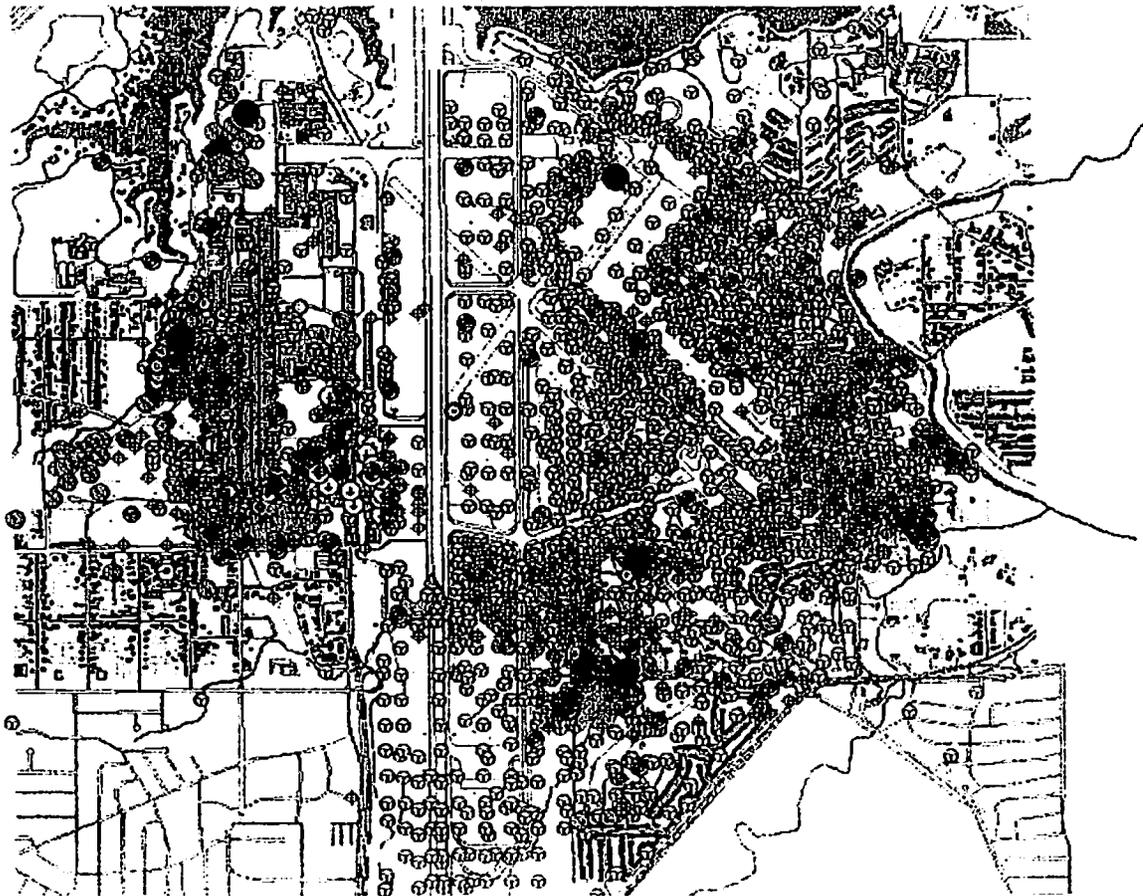
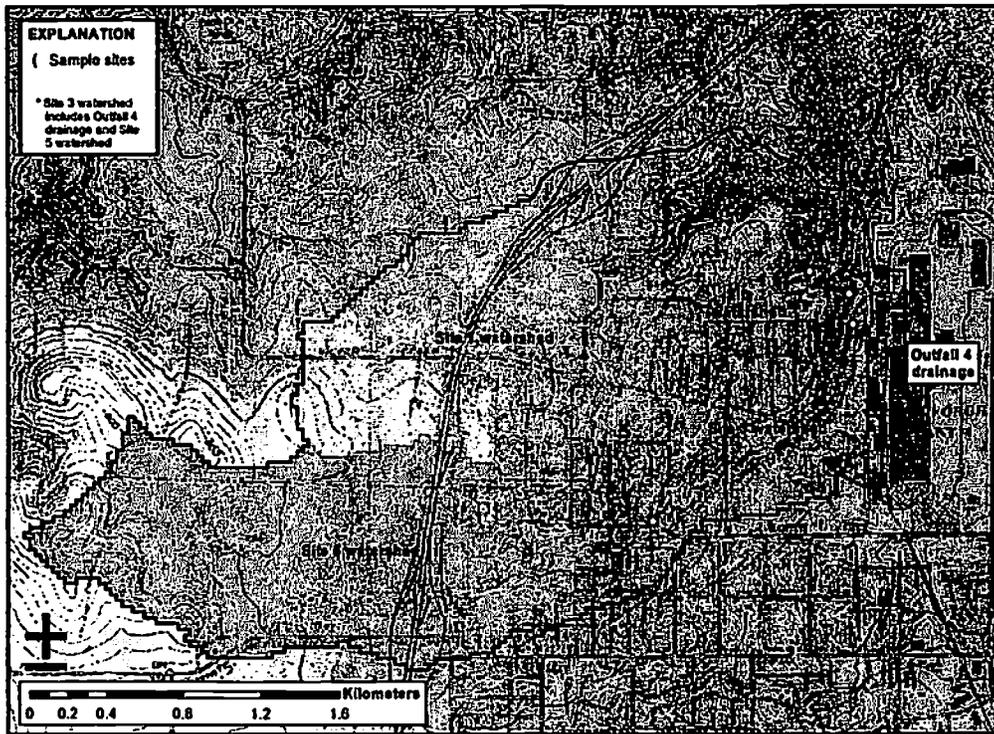


## AFP 4 Ft. Worth Statistics

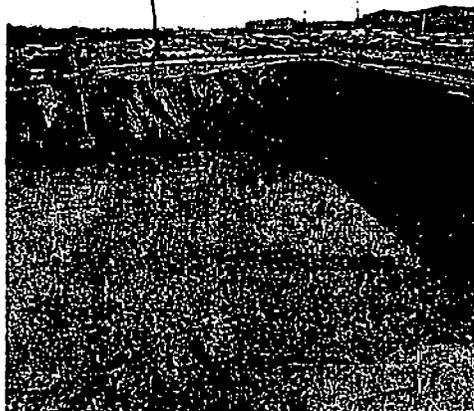
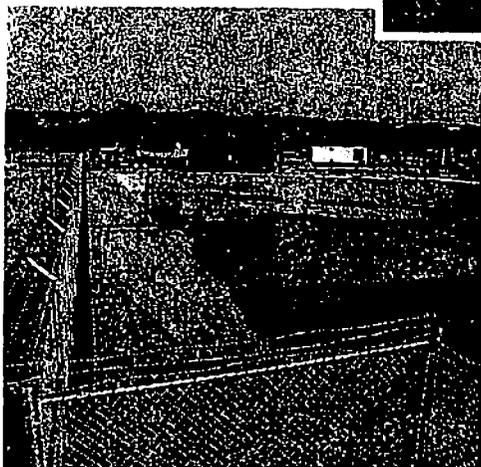
- ~ 16,800 Lockheed Employees
- Land (Acres) 734
- Buildings 150
- Space (sf) 7,600,908



### Big picture



Air Force Plant 59



Remove Obvious areas affected by Historical practice!

11,000 cu/yds removed in 1983 from Landfill #1



1 drop

= 2 part per Million (ppm) (mg/L)



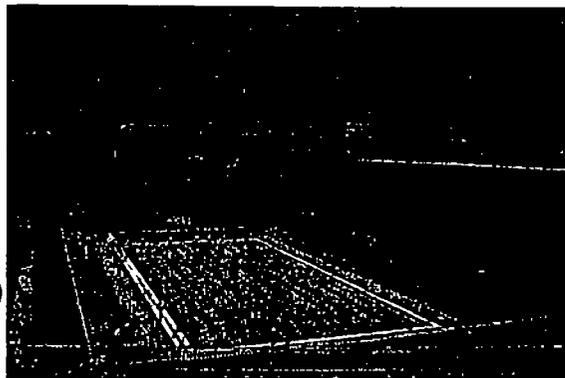
53 gal ~ 200 Liters

130,000 gal Olympic Pool ~ 500,000 L

1000 ppb = 1 ppm

= 1 part per Billion (ppb) (ug/L)

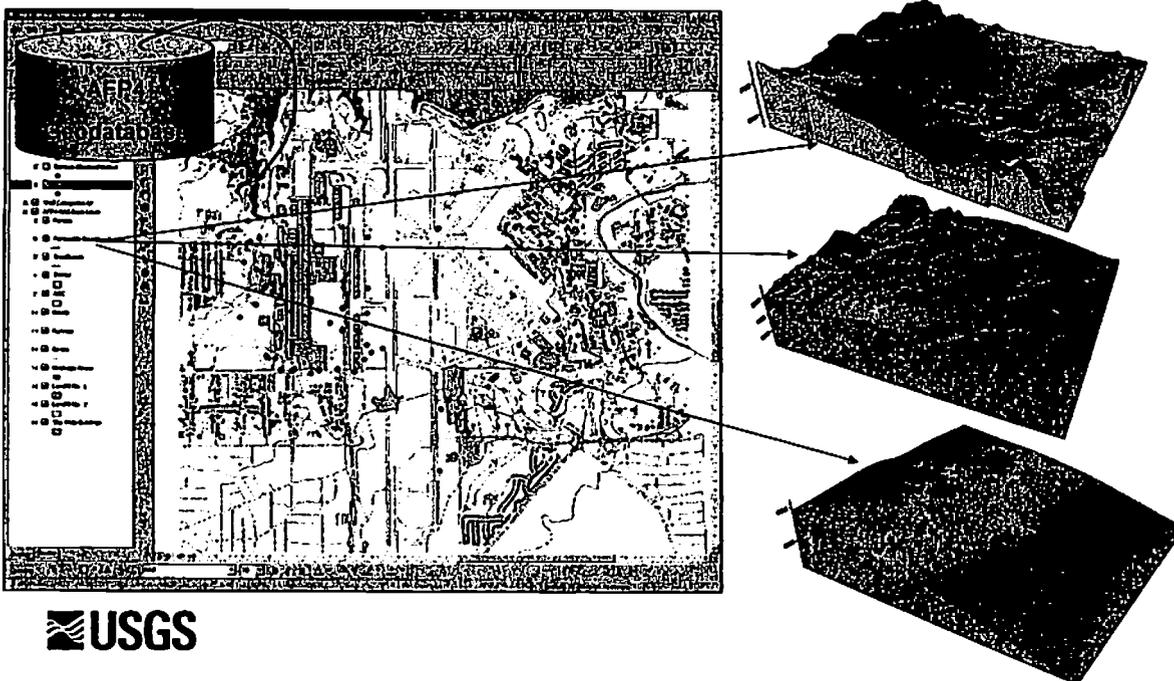
(or, 1 minute in 1,903 years!)





# Site-wide Three-Dimensional Model

Geodatabase is framework for 3-D creation.



## Water Treatment (Remedial Action)

East Parking Lot (~\$8M to build) (Pump and treat, 52 extraction wells)

- 102,260,000 gallons treated (2001-2005)
- ~1,620 lbs of TCE removed

Bldg 181 Soil Vapor Extraction/Heating (~\$4.5 M to build/heat)

- 2,295,000 gals treated to date
- ~2,000lbs of TCE removed (higher concentration area)

Fuel Saturation Area #1 (Carbon, changed to treat TCE)

- 18,000,000 gals treated (Low concentrations)

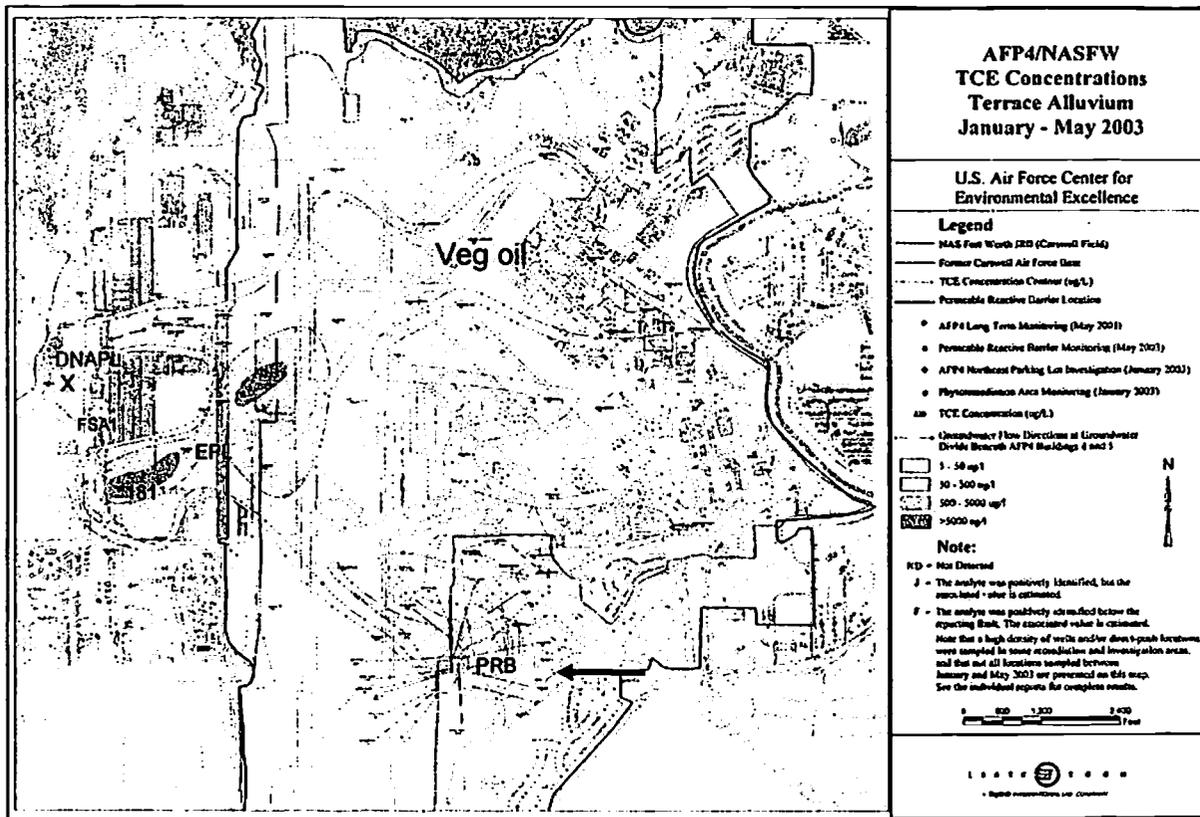
DNAPL Bailing (Dense Non Aqueous Phase Liquid)

- 9000 lbs of liquid removed (cheapest most effective removal technology!), however, in fractured bedrock!

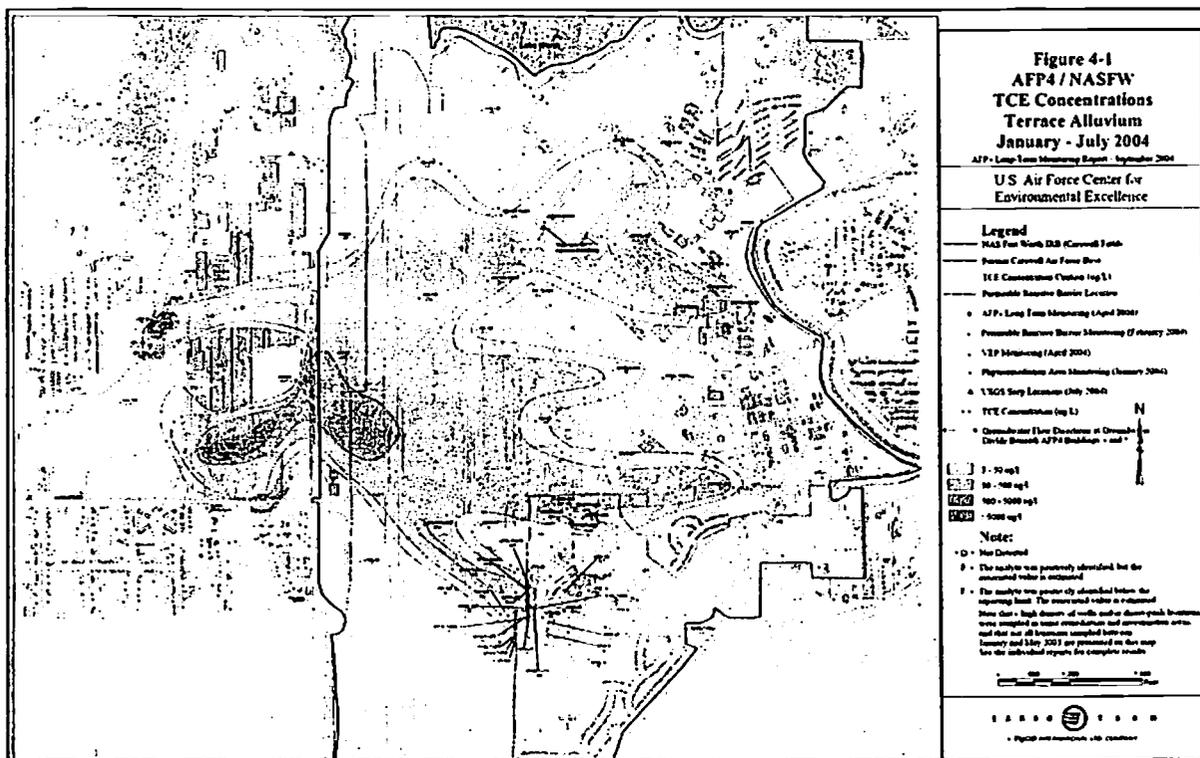
Permeable Reactive Barrier (Carswell) (~\$2.3M to build)

- No Operating Cost! (just monitoring water)
- effective reduction in concentrations!

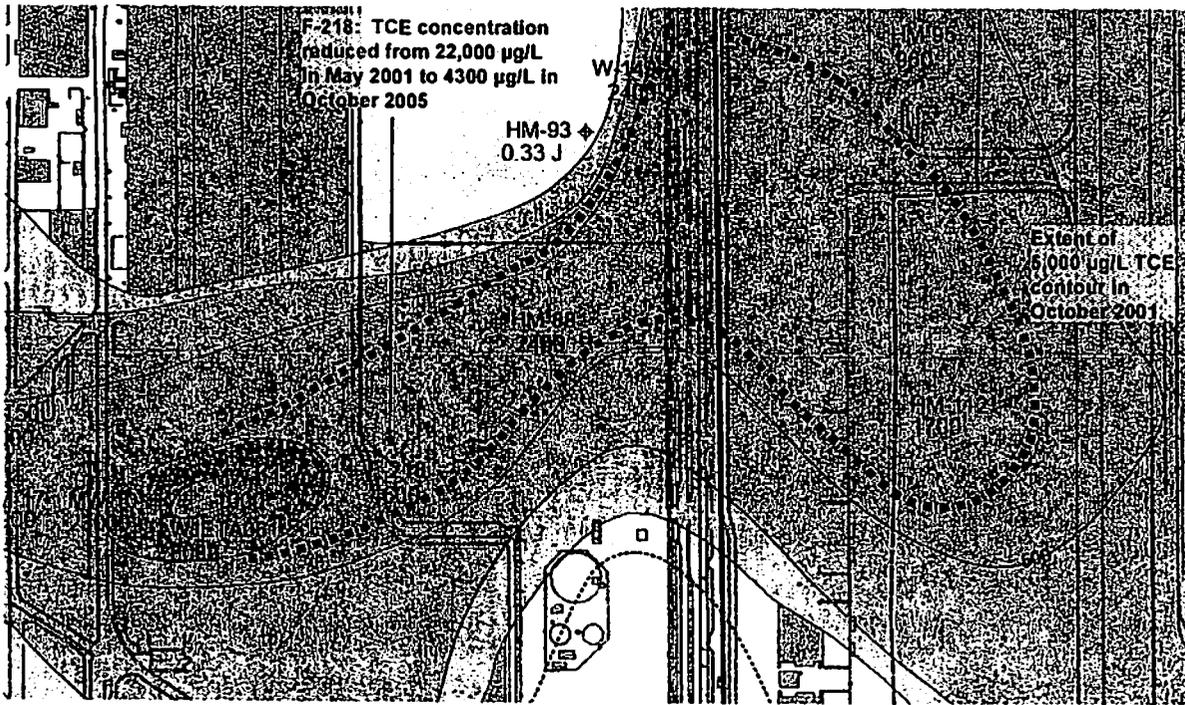
LTM 2003



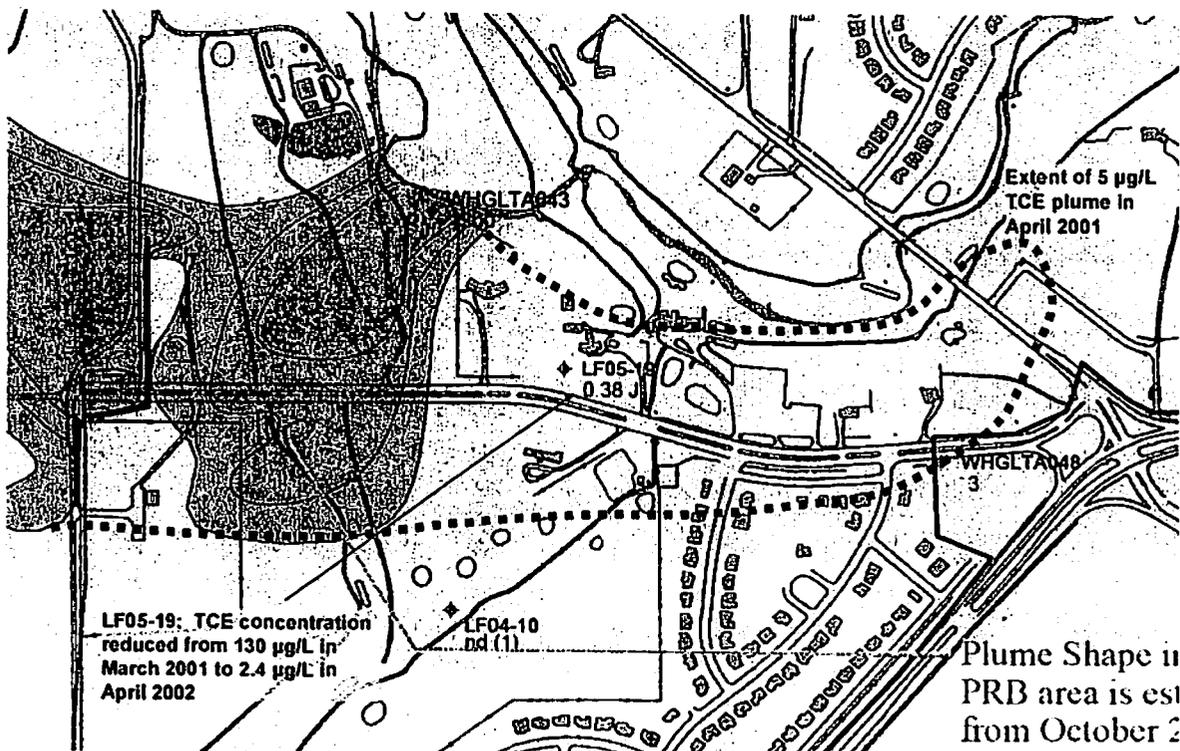
LTM 2004



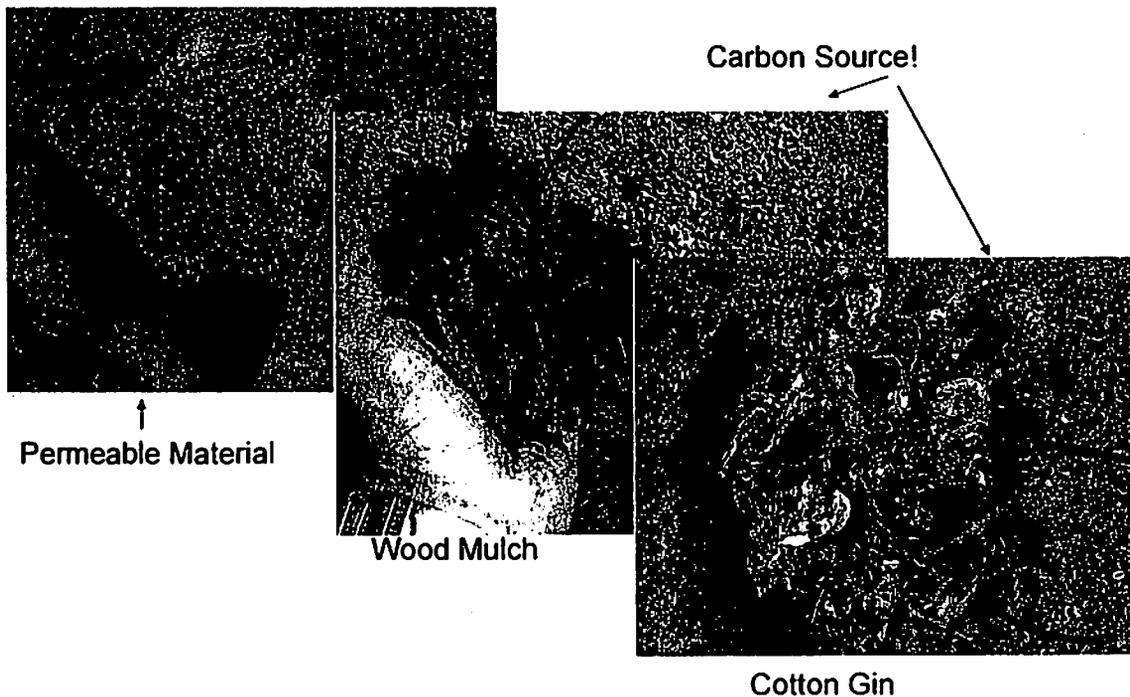
### East Parking Lot and Window Area: 5,000 µg/L TCE contour has receded 2500 feet since 2001



### Southern lobe receded 1800 feet in the 12-month period between April 2001 and April 2002



## PRB Wall Installation—Barrier Media



### Future Work

Long-term Monitoring  
Operation and treatment  
5 Year ROD Review (2<sup>nd</sup> edition)

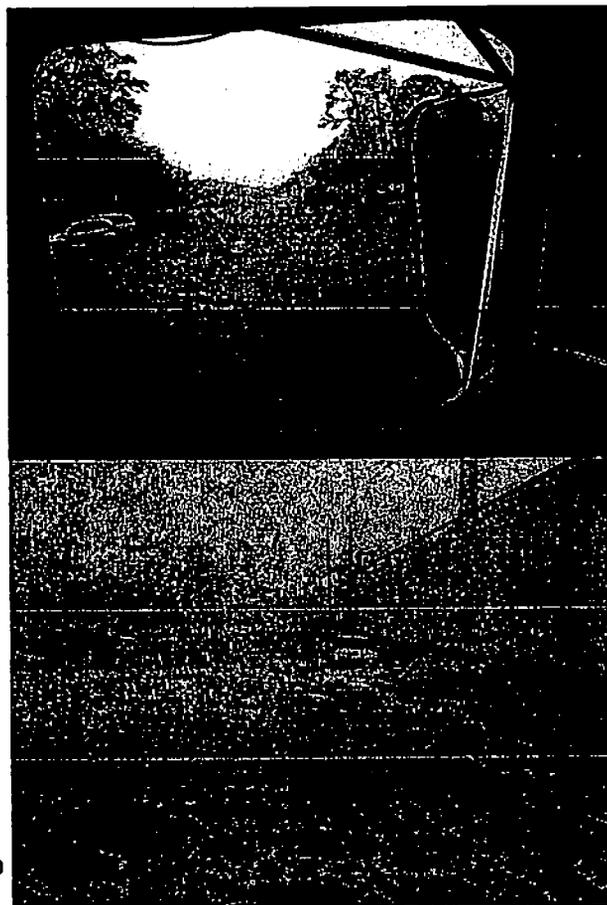
Long Range  
Modeling to perfect cleanup and LTM  
Innovative cleanup studies

However, War On Terror and recent  
National disasters have hurt the  
budget!

Keesler AFB  
Biloxi, MS

Web site with Admin Record  
– ALL AFP 4 docs

<http://public.ascen.wpafb.af.mil/esh/esh.asp>



# ***Air Force Real Property Agency***

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## **Carswell Off-Base BRAC UPDATE**



**Norma J. Landez**

**Base Environmental Coordinator**

**November 17, 2005**

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# Program Update

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- **Project Status**
- **Property Transfer**



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# **Radiological Maintenance Munitions Waste Survey**

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- **Survey conducted April – May 2004**
- **Radiation detected in Bunker 8531**
  - **Radiation above action level**
  - **Safety measures taken**



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# **Radiological Maintenance Munitions Waste Survey**

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- **January 2005 survey determined extent**
  - **Concrete removed during scabbling**
  - **Some radiation remains above action levels**
  - **Report to be submitted to EPA Region 6 Winter 2006**



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# Sanitary Sewer System

## SWMU 66

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- **Field work conducted June, July and November 2004**
- **Data evaluation indicates site meets TCEQ's Risk Reduction Standard (RRS) 2 closure criteria**
- **Draft Final RCRA Facility Investigation Report submitted to regulators November 2005 for review and approval**



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# Five Year Review

- **Review conducted February 2004**
- **Community Involvement and Notification**
  - **RAB notified at February 12, 2004 meeting**
  - **Public notice in February 27, 2004 Fort Worth Telegram**



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# Five Year Review

- **Draft Final Report sent to EPA in June 2005 for review/comment**
- **Report sent to HQ AFRPA for Director's signature**
- **Final Report will be placed in Administrative Record at local library upon signature**



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# WSA EOD Clearance

- **Explosives Safety Submission**  
Developed and submitted to the AFSC and DDESB for review/approval
- **Preparation of clearance area currently ongoing**
- **Geophysical surveys to be conducted to determine areas requiring clearance**
- **Clearance activities to begin early Spring 2006**



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# **Additional Projects**

- **Completed Focused Feasibility Study**
  - **Submitted June 2005**
  - **Awaiting Regulatory Approval**
- **Develop ESD**
- **Prepare OPS to Support Golf Course Property Transfer**
- **Golf Course Monitoring**



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# Property Transfer

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- **Remainder of Golf Course – 187 acres**
  - **Met with EPA Region 6 and TCEQ in Jan 2005 to discuss path forward**
  - **Final Focused Feasibility Study (FFS) submitted June 2005**
  - **Explanation of Significant Difference (ESD) will be prepared based on FFS**
  - **Operating Properly and Successfully (OPS) document will be prepared to support property transfer**
  - **Land Use Controls to be established in the deed**



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# Property Transfer

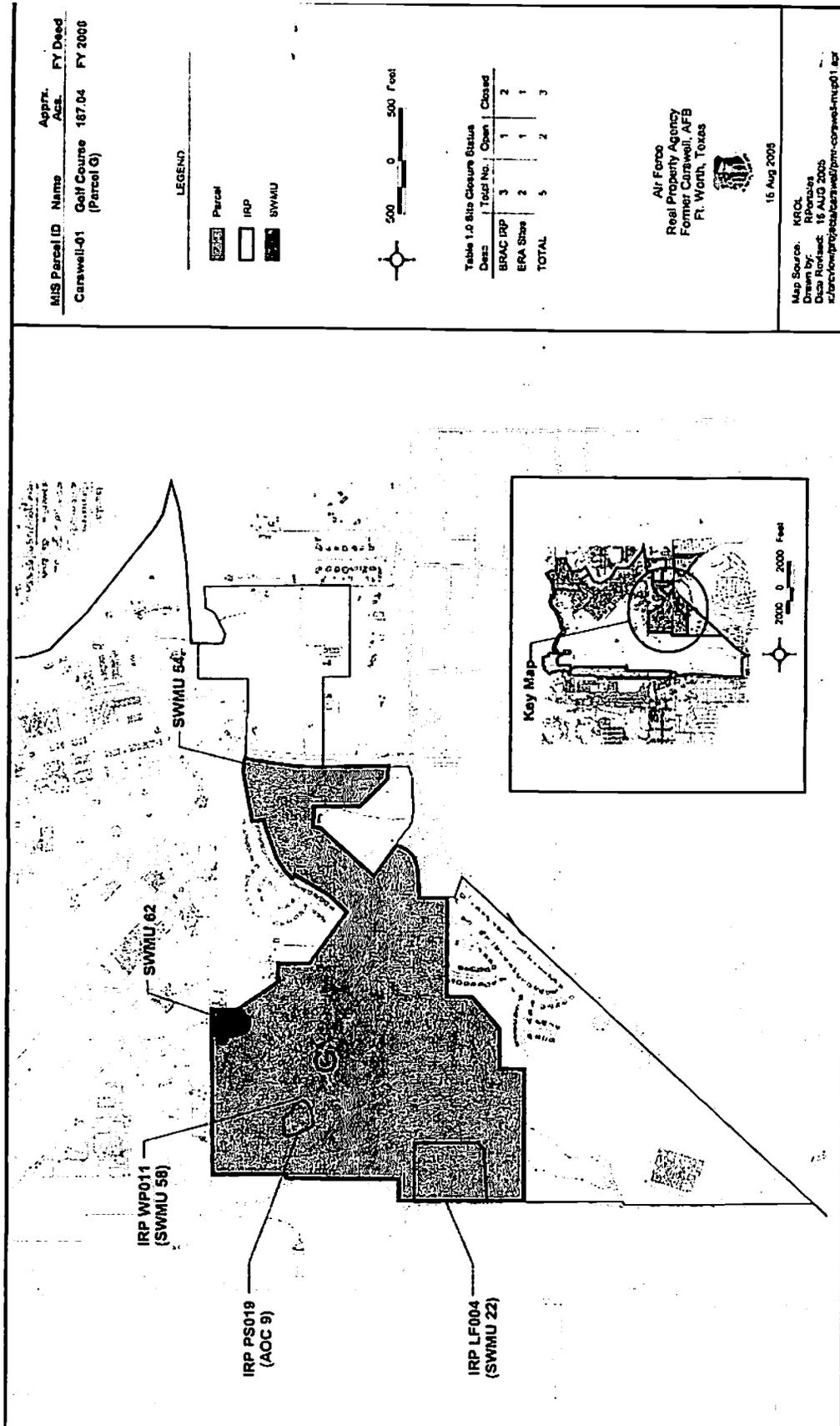
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- **WSA – 247 acres**
  - **Radiation survey completed at Bunker 8531 in January 2005**
  - **EOD Clearance required prior to transfer**



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# Property Transfer

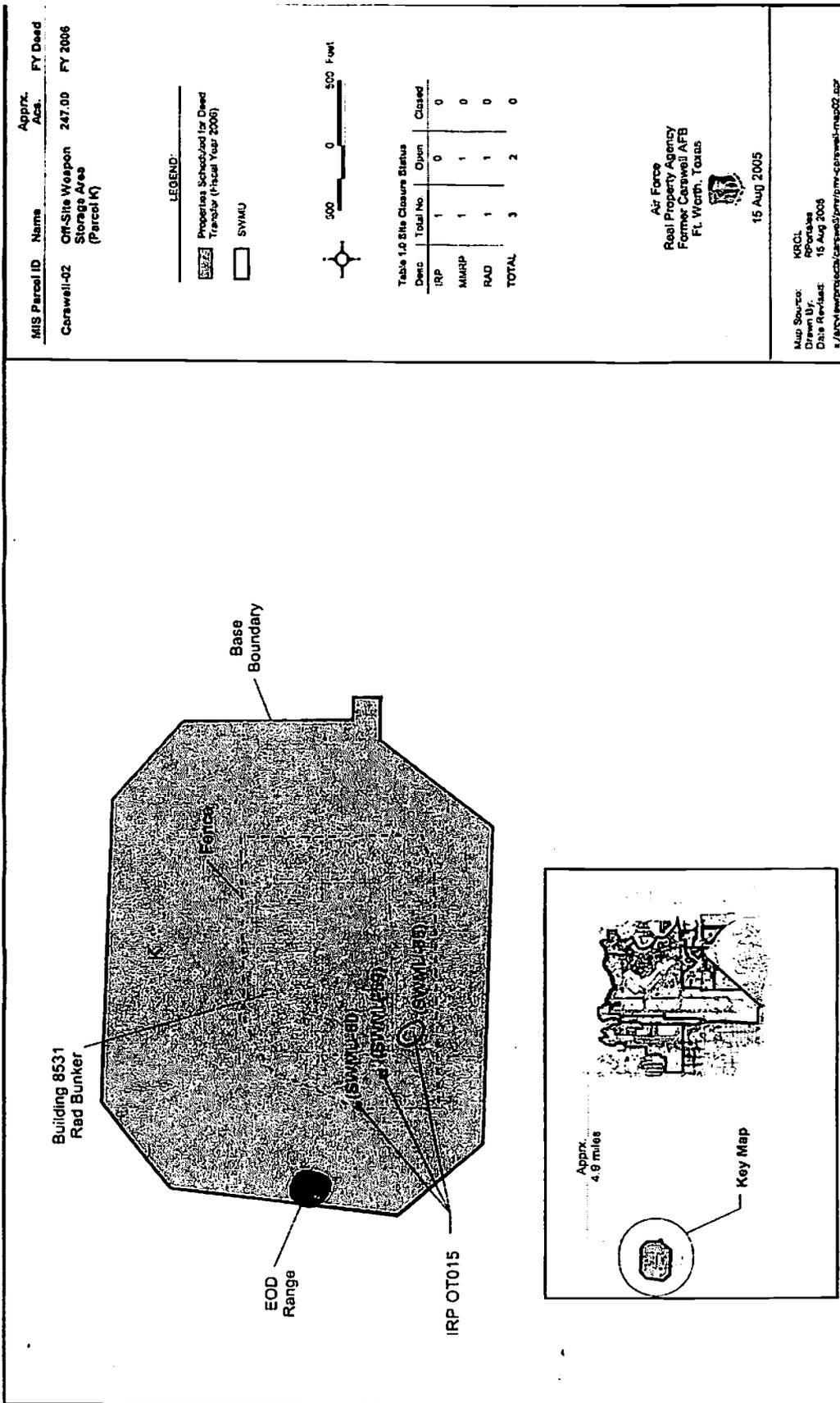


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# Property Transfer



MIS Parcel ID: Carrawell-02  
 Name: Off-Site Weapon Storage Area (Parcel K)  
 Apprx. Ac.: 247.00  
 FY Dead: FY 2006

LEGEND:  
 Properties Scheduled for Deed Transfer (Fiscal Year 2006)  
 SWMUG



Table 1.0 Site Closure Status

Disc	Total No.	Open	Closed
IRP	1	0	0
MMRP	1	1	0
RAO	1	1	0
TOTAL	3	2	0

Air Force  
 Real Property Agency  
 Former Carrawell AFB  
 Ft. Worth, Texas



15 Aug 2005

Map Source: KRCL  
 Drawn By: RPO/SLG  
 Date Revised: 15 Aug 2005  
 I:\arcview\projects\carrawell\print\pw-carrawell-map02.apr

**FINAL PAGE**

**ADMINISTRATIVE RECORD**

**FINAL PAGE**