

**Restoration Advisory Board (RAB) Meeting Agenda**  
**Williams Air Force Base (AFB)**  
**May 22, 2007**

Lecture Hall  
Highland High School  
4301 E. Guadalupe Rd., Gilbert, AZ

RAB Co-Chairpersons:

**Mr. Len Fuchs**  
Community Co-Chairman

**Mr. William “Bill” Lopp**  
Air Force Center  
For Environmental Excellence

<u>Time</u>	<u>Topic</u>	<u>Presenter</u>
7:00 p.m.	RAB meeting convenes <ul style="list-style-type: none"><li>• Welcome and introductions</li><li>• Community Co-chair remarks</li><li>• Review February meeting minutes</li></ul>	TBD (for Mr. Bill Lopp) & Mr. Len Fuchs
7:15 p.m.	Environmental Updates <ul style="list-style-type: none"><li>• ST-12 (Former Liquid Fuels Storage Area) Thermal Enhanced Extraction (TEE) system pilot study update</li><li>• Brief update on Landfill LF004 Investigation</li></ul>	Ms. Laura Stutheit & Mr. Jim Husbands
8:00 p.m.	Action items <ul style="list-style-type: none"><li>• Tour of ST-12</li><li>• RAB Rules</li><li>• RAB Web site</li></ul>	Ms. Amber Cargile
8:10 p.m.	RAB member topics of interest (from the floor)	TBD & Mr. Jim Husbands
8:25 p.m.	Meeting wrap-up <ul style="list-style-type: none"><li>• Review action items for next meeting</li><li>• Call for agenda items for next meeting</li><li>• Set date for next RAB meeting (August 28)</li></ul>	Mr. Len Fuchs
8:30 p.m.	Adjourn	Mr. Len Fuchs

Former Williams Air Force Base (AFB)  
Restoration Advisory Board (RAB)  
Meeting Minutes

May 22, 2007, 7:00 p.m.

Highland High School  
4301 E. Guadalupe Rd.  
Gilbert, AZ

Attendees:

Mr. Dennis Lundquist	Air Force Center for Environmental Excellence/Base Realignment and Closure (BRAC) Environmental Coordinator (BEC)/Air Force Co-chair (substitute)
Mr. Len Fuchs	RAB Community Co-chair
Mr. Harry Hendler	Arizona Department of Environmental Quality (ADEQ)
Ms. Linda Mariner	ADEQ
Mr. Tom Zuppan	RAB Member
Ms. Beverly Selvage	RAB Member
Ms. Lisa Gerdl	RAB Member
Mr. Dennis Orr	RAB Member
Ms. Jean Humphries	Arizona State University (ASU) Polytechnic
Ms. Catherine Jennings	ASU Polytechnic
Ms. Kathleen Baker	ASU Polytechnic
Mr. Phil Whitmore	CH2M
Ms. Amber Cargile	Cargile Communications
Ms. Elspeth Sharp	URS Corporation
Ms. Laura Stutheit	BEM Systems
Mr. James Husbands	Booz Allen Hamilton

Mr. Fuchs and Mr. Lundquist called the meeting to order at 7:00 p.m. Mr. Fuchs welcomed RAB members and asked all attendees to introduce themselves. The RAB approved the February 2007 meeting minutes without changes.

Mr. Lundquist introduced himself and explained that he would be substituting for Mr. Bill Lopp, the BEC for the Williams project. He then introduced Ms. Laura Stutheit who began the main presentation, an update regarding the Thermal Enhanced Extraction (TEE) Pilot Test System for site ST012, Former Liquid Fuels Storage Area.

Ms. Stutheit said that BEM Systems is in the process of installing the remaining instrumentation (flow meters, pressure gauges, temperature gauges) at ST012 and hooking up a potable water connection through the City of Mesa. She anticipates system start-up in early June in order to begin system testing. Next, Ms. Stutheit

presented a site map of the layout of the first phase of the TEE system. She discussed the site map and photos of the various components, including the boiler, thermal oxidizer, gauges, instrumentation, extraction pumps, and digital thermocouples (that measure the temperatures in the treatment cell).

Ms. Stutheit said regulators reviewed and commented on the draft work plan for the TEE Pilot Test System and she anticipates publishing the draft final in a few days. In late June, BEM Systems plans to begin pilot test operations. Groundwater extraction should begin in June, followed by a Mass Transfer Test in July, Steam Injection will run from August until November, Co-Steam Air Injection will run in November, and Air Injection will occur in December.

With no questions from the floor, Mr. Fuchs introduced Mr. Jim Husbands, who provided the Landfill (LF004) Supplemental Investigation Update. Mr. Husbands briefed that supplemental remedial investigation (RI) activities at LF004 began in May. He said that URS Corporation began Phase 1 Soil Gas testing on 14 May 2007. URS attempted to collect soil gas samples at approximately 15 feet below ground surface (bgs) but frequently collected samples at only 6-8 feet bgs because the sampling equipment could not penetrate deeper into the subsurface. Soil gas samples are being analyzed for trichloroethylene (TCE) and perchloroethylene (PCE) at an on-site field laboratory. Next, in Phase II, additional soil gas samples will be collected in areas identified as potential source areas. Decisions on placement of these "step-out" samples will be made based upon the Phase I sample results. If areas show non-detects, the samples will be shifted to expand the testing radius in areas where contaminants are detected.

Once Phases I and II are complete, Mr. Husbands said URS will collect targeted deeper soil, soil gas and/or groundwater samples at the landfill. He then presented two maps depicting Phase I sample locations and a stylized prediction of Phase II sample locations. (Actual Phase II locations will be determined by Phase I results.) "Area A" lays adjacent to Power Road and extends southeast of ASU Polytechnic's honeybee lab toward the old wastewater treatment plant. "Area B" is a larger area lying southeast of Area A near the base boundary near Old Pecos Road. Mr. Husbands noted that there will be several test probes sited just north of the base boundary near Old Pecos Road in order to determine the extent of any contamination there. He also said that testing in Area B will include a horizontal land feature of unknown origin that is discernible in old aerial photographs.

Mr. Hendler asked about the schedule to install probes in Area A. Mr. Husbands said that the work could begin as early as the next day and be completed within a week. He asked if Mr. Hendler would like a representative from ADEQ to come out to see the work. Mr. Hendler said he would.

Mr. Zuppan asked why Area A is being investigated outside the landfill boundaries. He asked if known storage or disposal occurred in those areas. Mr.

Husbands answered that historical sample results indicated some TCE/PCE in those areas. Mr. Zuppan asked if the same is true for Area B and Mr. Husbands replied that it is.

Next, Ms. Cargile covered action items from the February 2007 RAB meeting. First, Ms. Cargile discussed a future tour of the new TEE system at ST012 for RAB members. Mr. Hendler indicated that ADEQ would also like to attend any site tour. Ms. Cargile said she is working with Linda Geissinger, the public affairs officer for Air Force Real Property Agency's Western Execution Center, to determine logistics for the tour. She asked RAB members if they would like to hold the tour in conjunction with a RAB meeting, or separately. Mr. Fuchs indicated he would be willing to postpone the next RAB meeting to September if that is most efficient, but asked Ms. Cargile to speak with Mr. Lopp about dates and then if necessary, present RAB members with some options via e-mail. Ms. Cargile took as an action item to coordinate the date with Mr. Lopp and Ms. Geissinger.

Next, Ms. Cargile reported on her assessment of the Williams RAB program as it pertains to the new federal guidelines for RABs issued by the Department of Defense (DoD) and Environmental Protection Agency (EPA) last year. Ms. Cargile says the Williams RAB is fully compliant, but that she does have a few recommendations based on the guidance as well as her research for the new Community Relations Plan. She recommended that the RAB reach out once again to the Gila River Indian Community (GRIC) to try to solicit a member for the RAB. She indicated that she had corresponded with GRIC officials twice in the last year regarding the Five Year Review and the CRP update, but has been unable to firm up a contact. Mr. Hendler said that he would research a contact and provide it to Ms. Cargile.

Secondly, Ms. Cargile asked the representatives from ASU if they would provide a member to the RAB, since ASU has not provided a RAB member at meetings for some time. Ms. Humphries said she would be willing to serve as a RAB member. Ms. Cargile also suggested that she and Ms. Humphries work together to identify an ASU student who would be willing to join the RAB as well. Lastly, Ms. Cargile recommended that the RAB invite our city representatives who sometimes attend RAB meetings to become official RAB members. RAB members concurred with the recommendations.

Ms. Cargile also told RAB members that a dozen new documents regarding the Williams project are now loaded at the Williams RAB website ([www.afropa.hq.af.mil/mcclellan/williams.html](http://www.afropa.hq.af.mil/mcclellan/williams.html)).

Mr. Fuchs wrapped up the meeting by reviewing action items and soliciting proposals for agenda items for the next RAB meeting.

Action items included:

- TEE system tour (Ms. Cargile/Mr. Lopp)

Two proposed agenda items were noted:

- Briefing from ASU discussing maintenance of the protective cap at South Desert Village
- Pertinent site updates

The meeting was adjourned at 7:37 p.m. The next Williams RAB meeting date is tentatively scheduled for Tuesday, August 28, 2007, at 7:00 p.m., at Highland High School. This date may change depending on the scheduling of the TEE system tour.

# ***Headquarters U.S. Air Force***

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## **Williams AFB Restoration Advisory Board**



**May 22, 2007**

**Highland High School Lecture Hall  
4301 E. Guadalupe Rd.  
Gilbert, AZ**



# ***Welcome & Introductions***

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Presented by Mr. Len Fuchs,  
RAB Community Co-Chairman

- **Mr. Dennis Lundquist**, Air Force Center for Environmental Excellence is attending for Mr. Bill Lopp (BRAC Environmental Coordinator)
- **Mr. Len Fuchs**, RAB Community Co-Chair
- **Ms. Carolyn d'Almeida**, Project Manager, U.S. Environmental Protection Agency, Region IX
- **Mr. Don Atkinson**, Project Manager, Arizona Department of Environmental Quality



# ***Community Co-chair Remarks***

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Presented by Mr. Len Fuchs,  
RAB Community Co-Chairman

- **Welcome/remarks**
- **February meeting minutes**



# ***Headquarters U.S. Air Force***

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## **ST-12 Thermal Enhanced Extraction Pilot Test System Update**



Presented by:  
Ms. Laura Stutheit, PE, BEM Systems



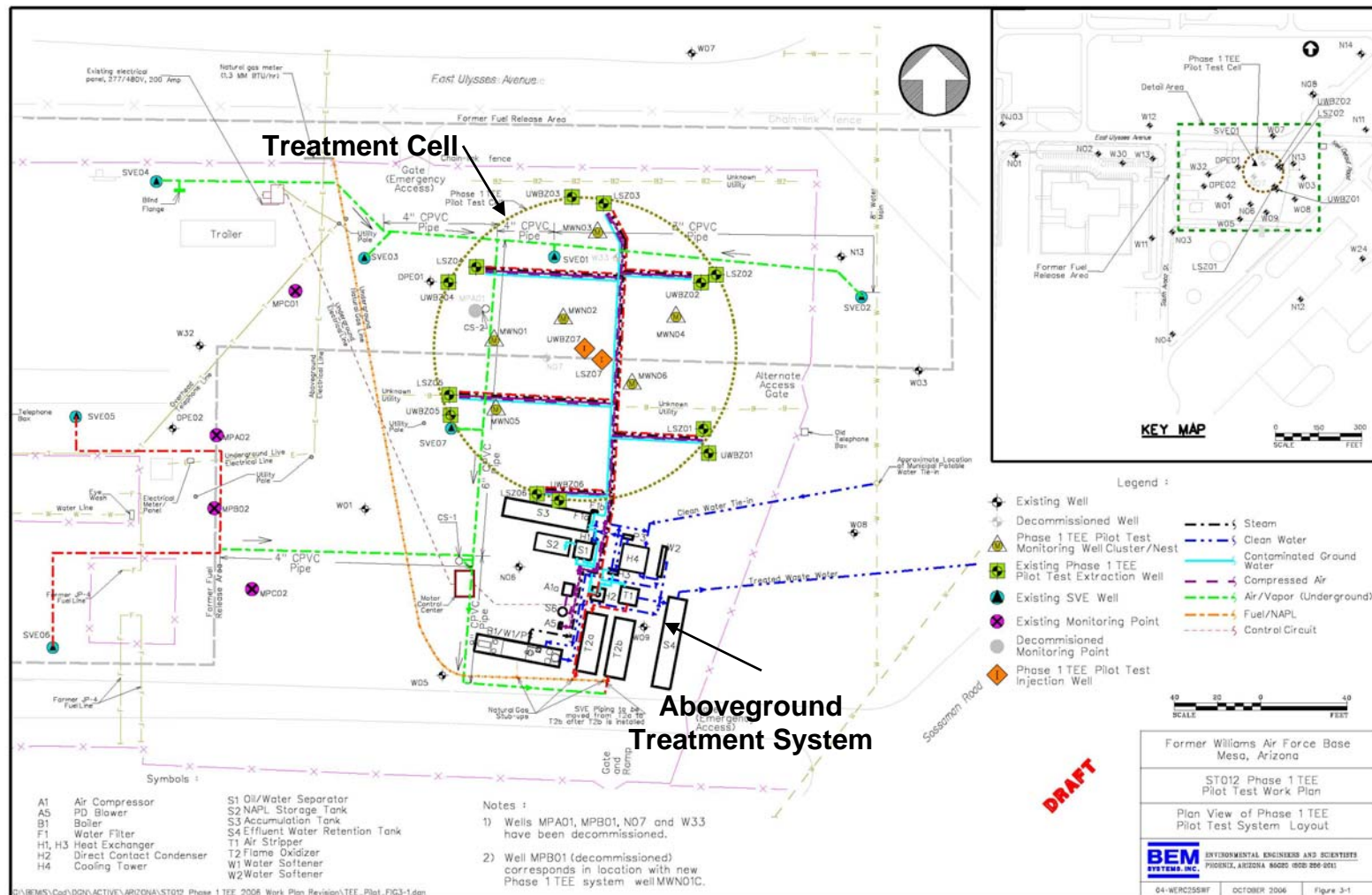
# ***Status of Construction***

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- **Remaining construction (May-Jun 07):**
  - **Instrumentation**
  - **Potable water connection**
  - **System testing**



# Phase 1 TEE System





# Phase 1 TEE System Construction (April)







# ***New System Components Boiler***

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# ***Thermal Oxidizer***

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# ***digiTCs***







# ***Gauges and Instrumentation***







# *Extraction Pumps*





## ***Next Steps***

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- **Complete construction (May 07)**
- **System testing (Jun 07)**
- **Work Plan approval (Jun 07)**
- **Pilot Test Operations**
  - **Groundwater Extraction (Jun 07)**
  - **Mass Transfer Test (Jul 07)**
  - **Steam Injection (Aug 07)**
  - **Co-Steam/Air Injection (Nov 07)**
  - **Air Injection (Dec 07)**

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## **Landfill LF004 Supplemental Investigation Update**



Presented by:  
Mr. Jim Husbands, PE, BAH



## ***Status of LF004 Supplemental RI***

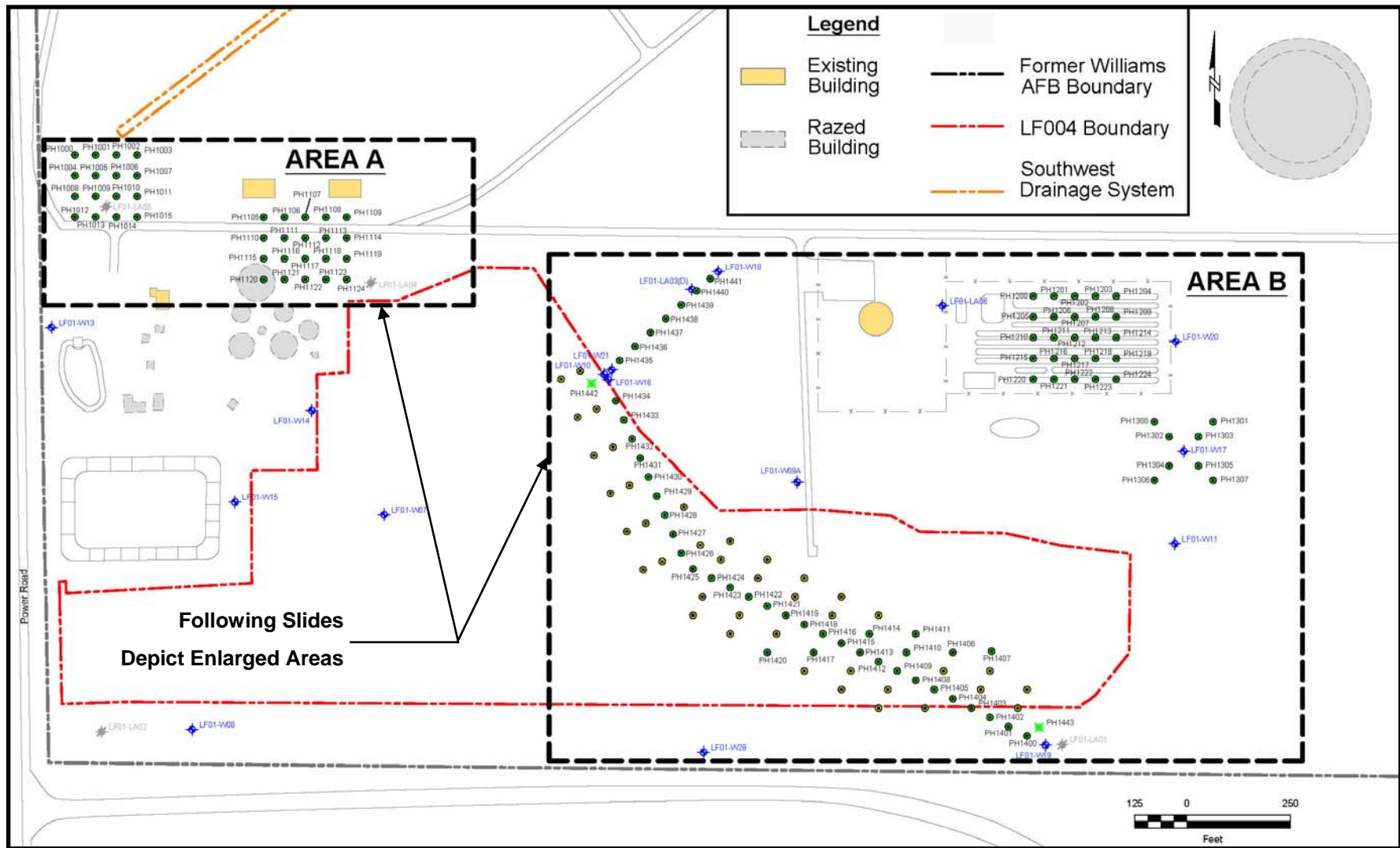
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**Supplemental RI Activities at LF004 begins this month.**

- **Phase I Soil Gas began on 14 May 2007.**
- **Soil Gas samples are collected at approximately 15 ft bgs.**
- **The AF will collect primary soil gas samples, analyze for TCE/PCE onsite, and step-out based upon results (Phase II).**
- **Once Phases I and II are complete, the AF will collect targeted deeper soil gas, soil, and/or groundwater samples.**
- **The following figures depict Phase I sample locations and a 'stylized' prediction of Phase II sample locations. (actual Phase II locations will be driven by Phase I results)**



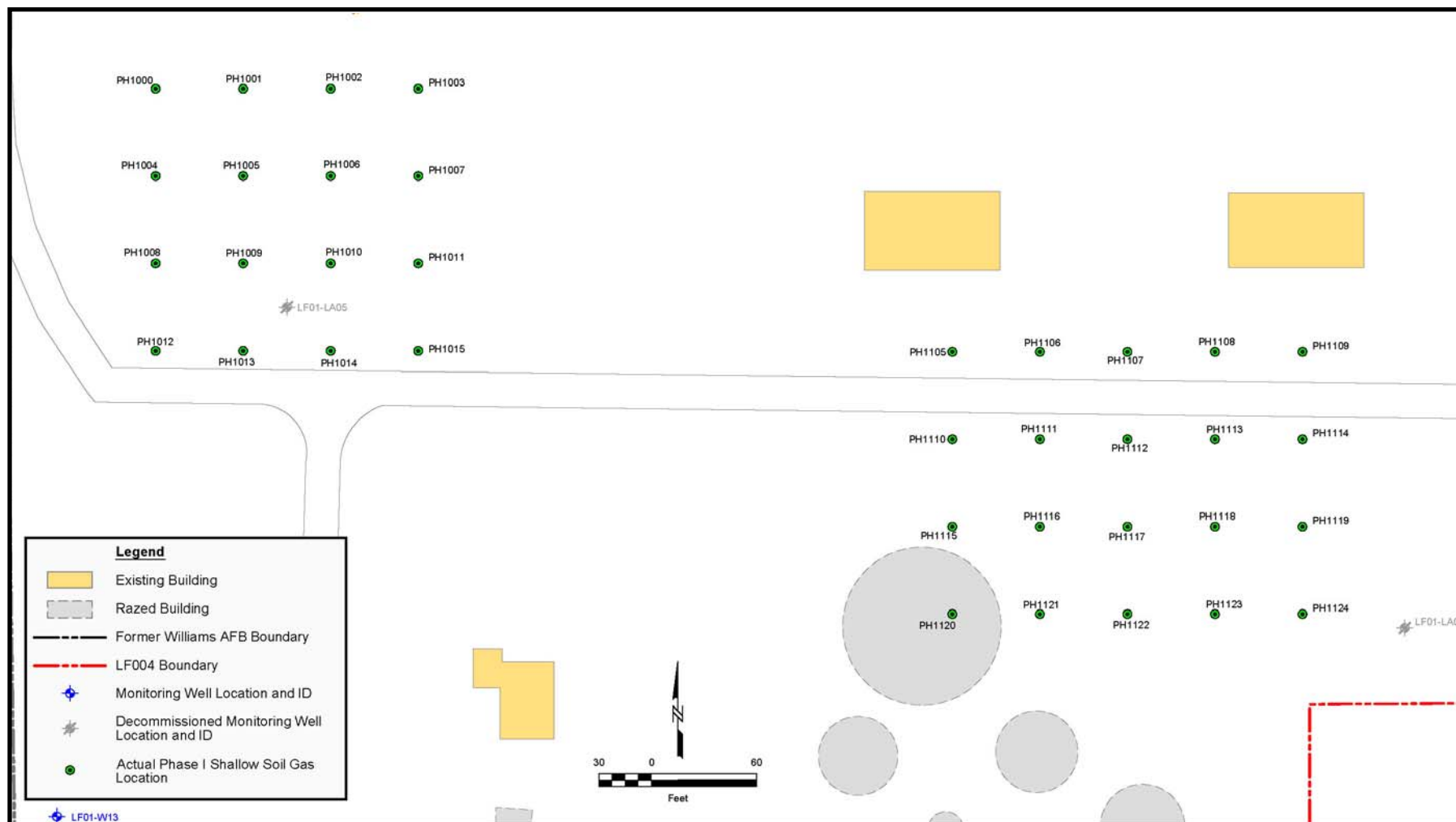
# Status of LF004 Supplemental RI

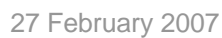






# Status of LF004 Supplemental RI (Area A)





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## **Action Items**



Presented by:  
Ms. Amber Cargile,  
Cargile Communications Consulting





## ***Action Items***

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- **RAB Tour of TEE System in September/October**
- **New federal RAB guidelines issued Dec 2006**
- **Documents up for review on Williams RAB website:  
<http://www.afarpa.hq.af.mil/mcclellan/williams.html>**



## ***Documents for RAB Web Site***

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<b>Submittal Date</b>	<b>Description</b>
21-Feb-07	Final Bldg. 760 Annual Groundwater Monitoring Report, July 2006, Former Williams AFB, Mesa, Arizona, February 2007
27-Feb-07	Final Bldg. 760 Long-Term Monitoring Work Plan, Former Williams AFB, Mesa, Arizona, February 2007
6-April-07	Landfill 4 (LF004) Annual Cap Inspection Report, Former Williams AFB, Mesa, Arizona, December 2006
17-April-07	Draft Final LF004 Supplemental Remedial Investigation Work Plan, Former Williams AFB, Mesa, Arizona
27-April-07	Draft Final Basewide Sampling and Analysis Plan, Former Williams AFB, Mesa, Arizona
27-April-07	Draft Final Site SS017 - Former Pesticide and Paint Shop Groundwater Monitoring Work Plan, Former Williams AFB, Mesa, Arizona
27-April-07	Draft Final Site ST012 - Former Liquid Fuels Storage Area Groundwater Monitoring Work Plan, Former Williams AFB, Mesa, Arizona
08-May-07	Final Site ST012 Groundwater Monitoring Report, Former Williams AFB, Mesa, Arizona
08-May-07	Final Temporary Treatment Facility Site Inspection Report, Former Williams AFB, Mesa, Arizona

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## **Meeting Wrap-Up**



Presented by Mr. Len Fuchs,  
RAB Community Co-Chair



## ***Meeting Wrap-Up***

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- **Review action items for next meeting**
- **Propose agenda items for next meeting**
- **Next RAB meeting scheduled for Aug. 28, 2007, Highland High School lecture hall**