

# Air Force Real Property Agency

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*I n t e g r i t y - S e r v i c e - E x c e l l e n c e*

## Kelly Restoration Advisory Board

January 12, 2010



**AFRPA Headquarters  
485 Quentin Roosevelt  
San Antonio, TX 78226  
6:30 - 8:30 p.m.**

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# *Welcome and Overview*

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- **6:30 – 6:35**      **Welcome and Overview**
- **6:35 – 6:40**      **RAB Administrative Items**
- **6:40 – 6:45**      **RAB Membership**
- **6:45 – 7:10**      **Environmental Update**
- **7:10 – 7:30**      **Environmental Outlook**
- **7:30 – 7:45**      **Property Transfer**
- **7:45 – 8:00**      **Future of Kelly RAB**
- **8:00 – 8:20**      **Public Comment Period**
- **8:20 – 8:30**      **Suggested Agenda Items for next RAB**
- **8:30**              **Meeting Adjournment**



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# **Kelly RAB Administrative Items**

**Jose Martinez**  
**Facilitator**



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# ***RAB Administrative Items***

- **Newspaper Announcements**
  - **San Antonio Express-News: January 8 & 11, 2010**
  - **La Prensa: January 6 & 10, 2010**
  
- **Newspaper Articles**
  - **The Current: October 14, 2009**
  - **Kelly Observer: December 10, 2009**
  - **Lackland Tailspinner: January 8, 2010**



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# **Kelly RAB Membership**

**Jose Martinez**  
**Facilitator**



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# ***Kelly RAB Membership***

- **New Members**
  - **Mr. Jose P. Arzola**
  - **Ms. Lidia M. Martinez**
  
- **Member Introductions**

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## Kelly Environmental Update



**Paul Carroll**  
**BRAC Environmental Coordinator**

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**Site MP:  
Former Metal Plating Shop,  
Building 171 Parking Lot**



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# *Site MP Baseline Groundwater Sampling Results*

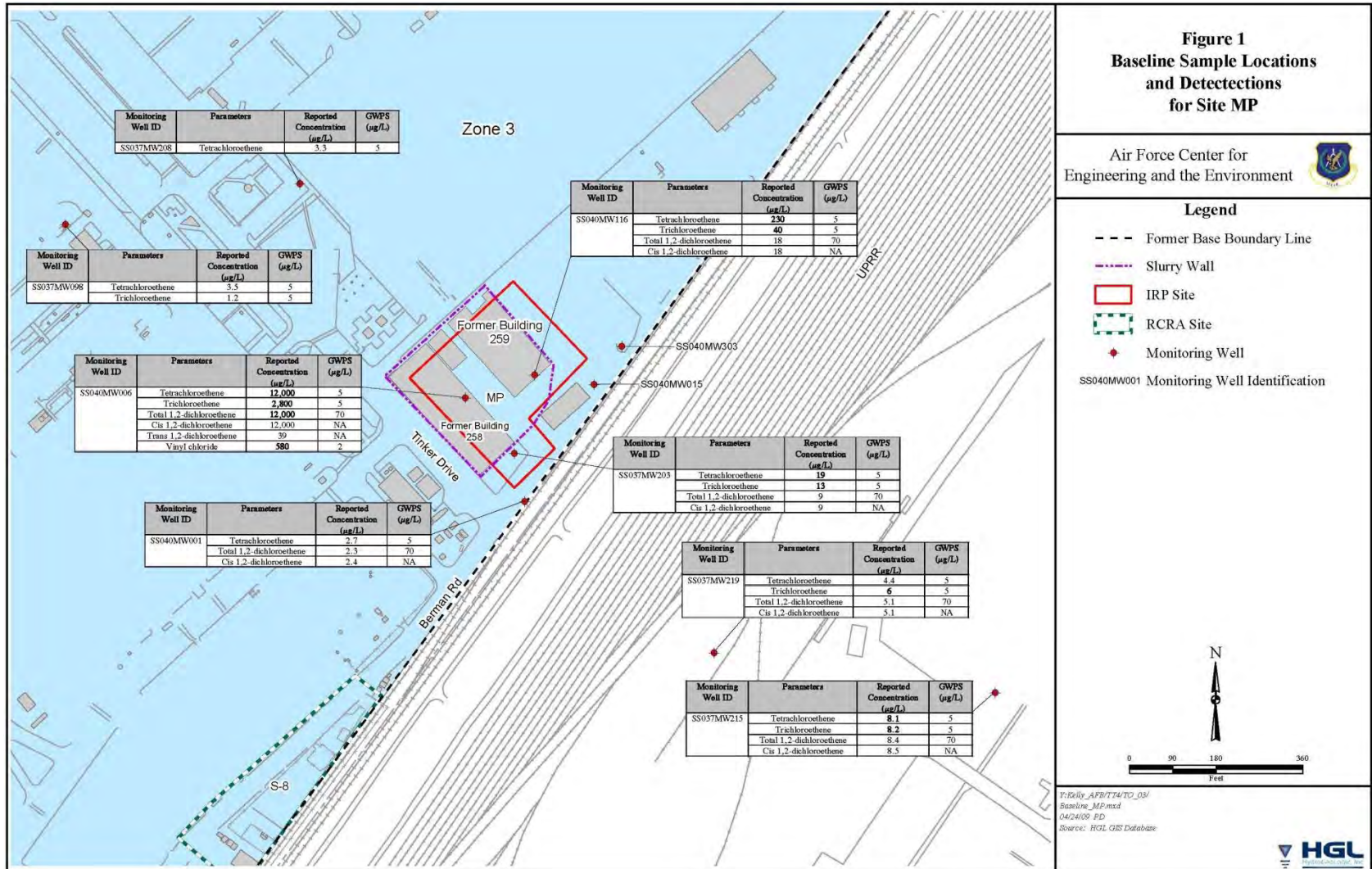
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- **Groundwater samples were collected from eight existing monitoring wells January 12 – 14, 2009, prior to conducting remediation activities.**
- **Samples were analyzed for the site specific chemicals of concern.**
- **Analytical results showed elevated levels of PCE within the slurry wall ranging from 230 to 12,000 ppb and TCE ranging from 40 to 2,800 ppb.**



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# Site MP Baseline Sampling Detections





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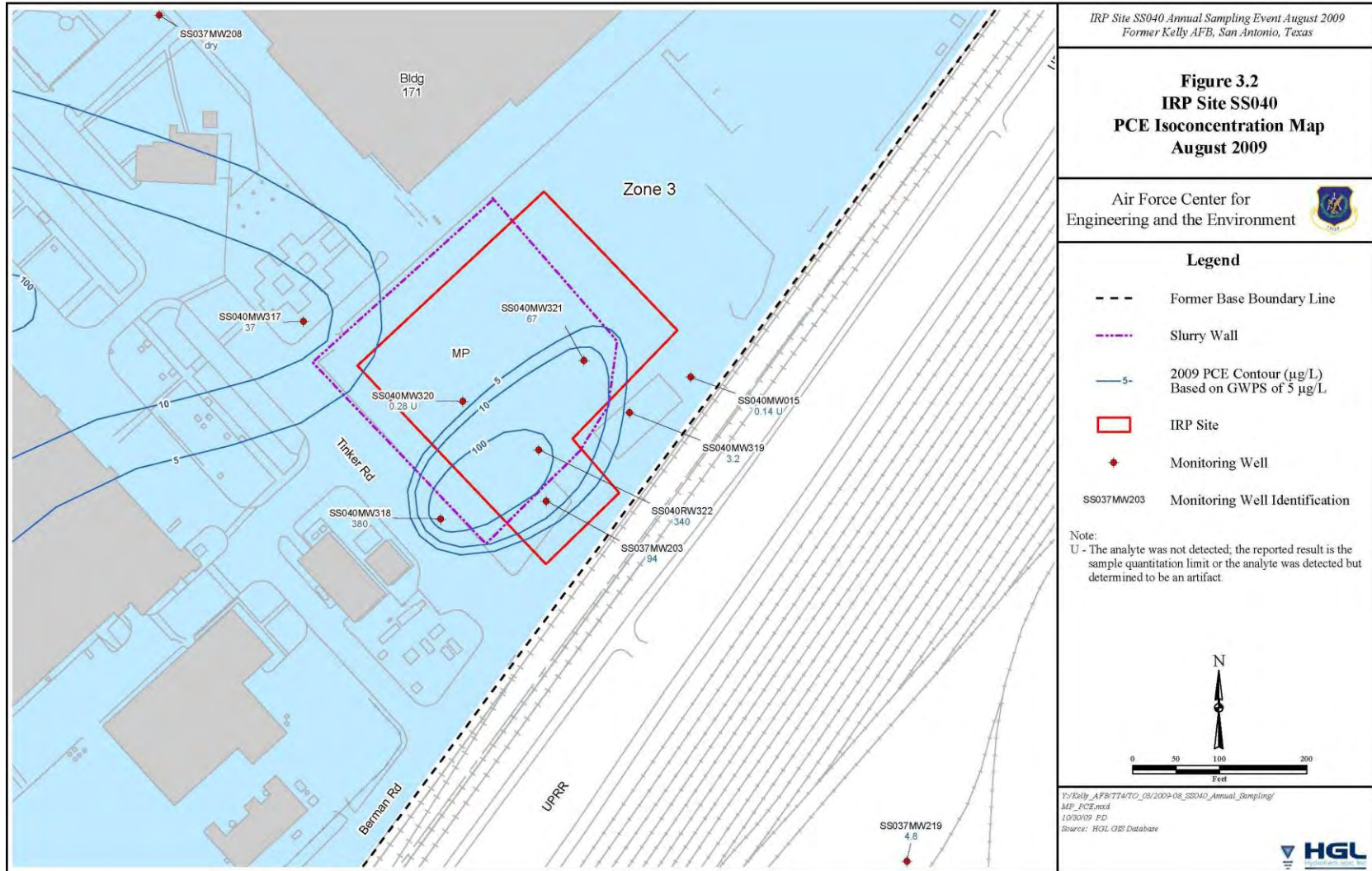
# **Site MP Annual Groundwater Sampling Results**

- **Groundwater samples were collected from three existing and six newly installed groundwater monitoring wells in August 2009.**
- **Analytical results were compared to results from the Baseline groundwater sampling event.**
- **Analytical results showed significant decrease in levels of PCE at the two new replacement wells within the slurry wall. MW320 (current ND, baseline 12,000 ppb) MW321 (current 67 ppb, baseline 230 ppb).**
- **The third new well inside the slurry wall was 340 ppb (MW322) for PCE.**
- **Analytical results from wells located immediately outside the slurry wall were 3.2 ppb (MW319), 94 ppb (MW203) and 380 ppb (MW318) for PCE.**
- **Biodegradation of the primary contaminant, PCE/TCE, was noted within the wells as indicated by the presence of cis-1,2-DCE and vinyl chloride.**



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# Site MP Annual Sampling - PCE

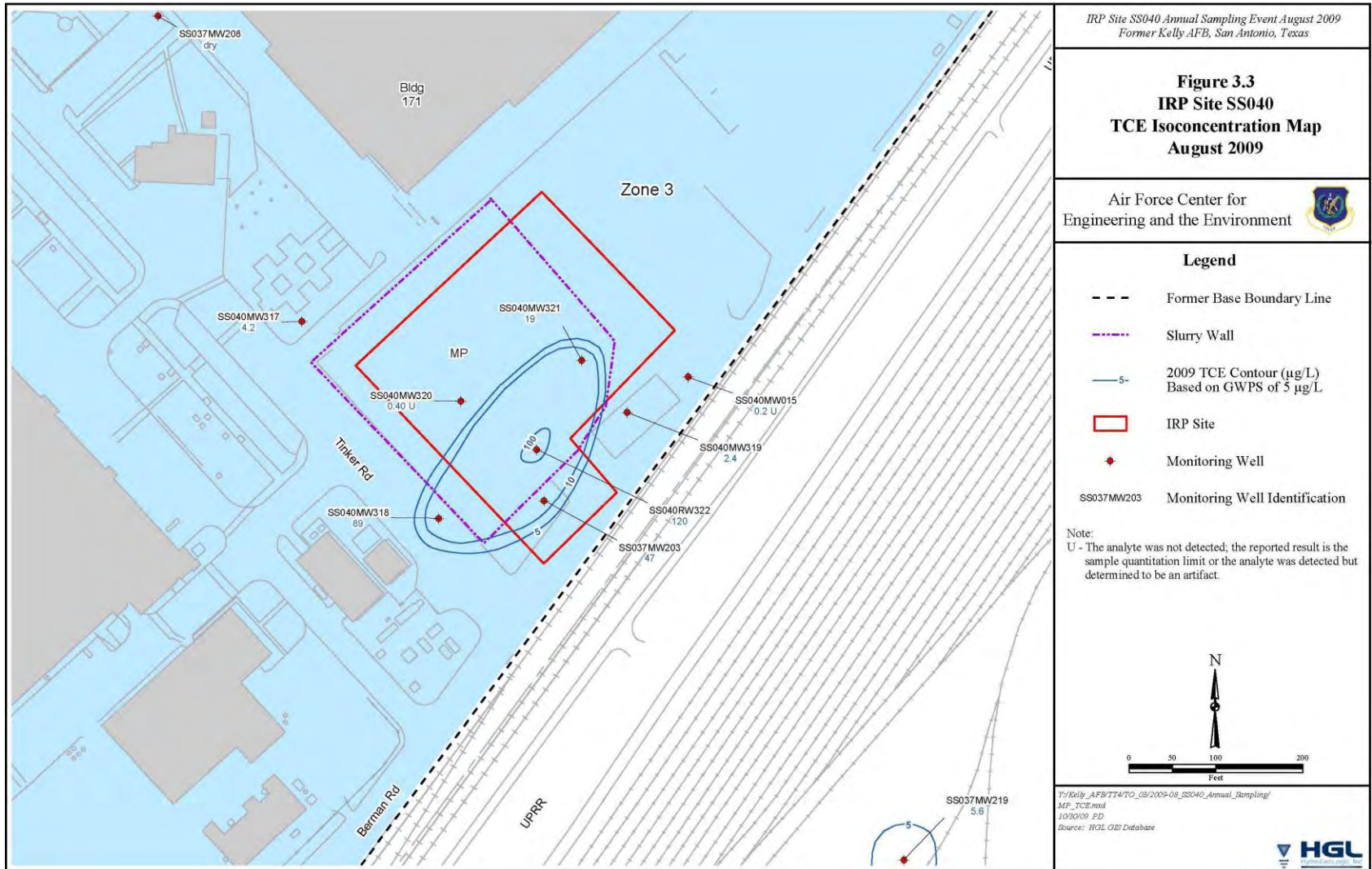




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# Site MP

# Annual Sampling - TCE

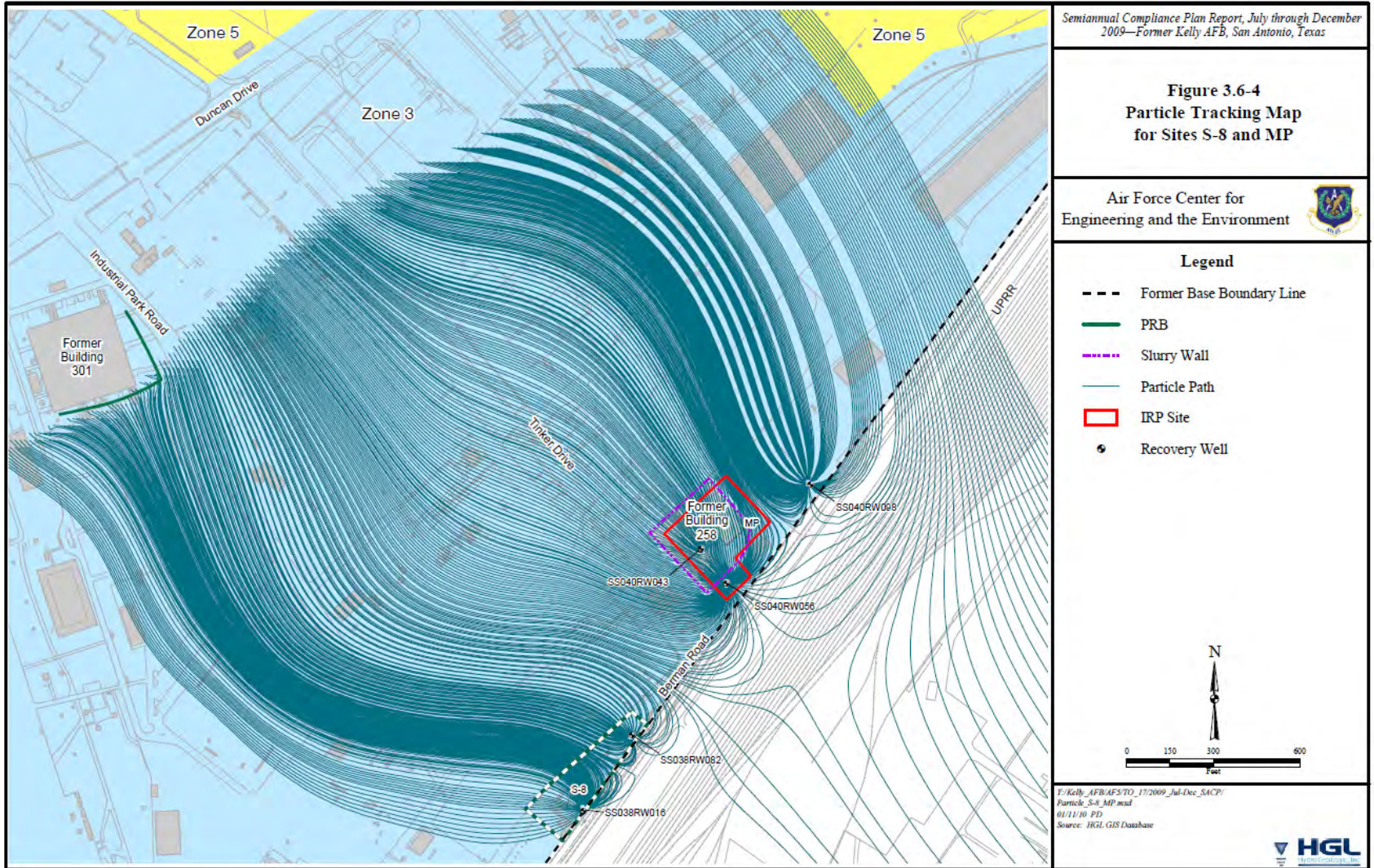




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# Site MP

# GW Particle Tracking Map





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***Site MP***

**Questions?**

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## Site S-1 Electric Resistive Heat (ERH)



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# ***Site S-1 Background***

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- **The S-1 site is a former waste oil storage facility , located at the north end of former Kelly AFB between Growdon Rd. and Thompson Pl.**
- **The location was used from the 1960s to 1973 for intermediate storage of waste, including mixed solvents and waste petroleum, oil, and lubricants.**
- **The source of contamination was a former sump that served as a collection point along a drain line connected to an above ground storage tank.**
- **In 1995 a remediation pump and treat system with six recovery wells was installed, and in 2000 a perimeter SVE system with 12 vapor extraction wells and groundwater recovery pumps was installed.**



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# **Site S-1**

## **Background Cont.**

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- **As part of remediation activities, a large soil excavation of the sump area was completed in 1999, to a total depth of 28 feet below ground surface.**
- **The highest levels of soil contamination, which included chlorobenzene and petroleum hydrocarbons, were still present in the former sump area at the time of the excavation.**
- **Due to remaining contamination, AFRPA selected electrical resistance heating (ERH) as the preferred technology for source treatment as a remedial enhancement for the site.**



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# ***Site S-1 Background Cont.***

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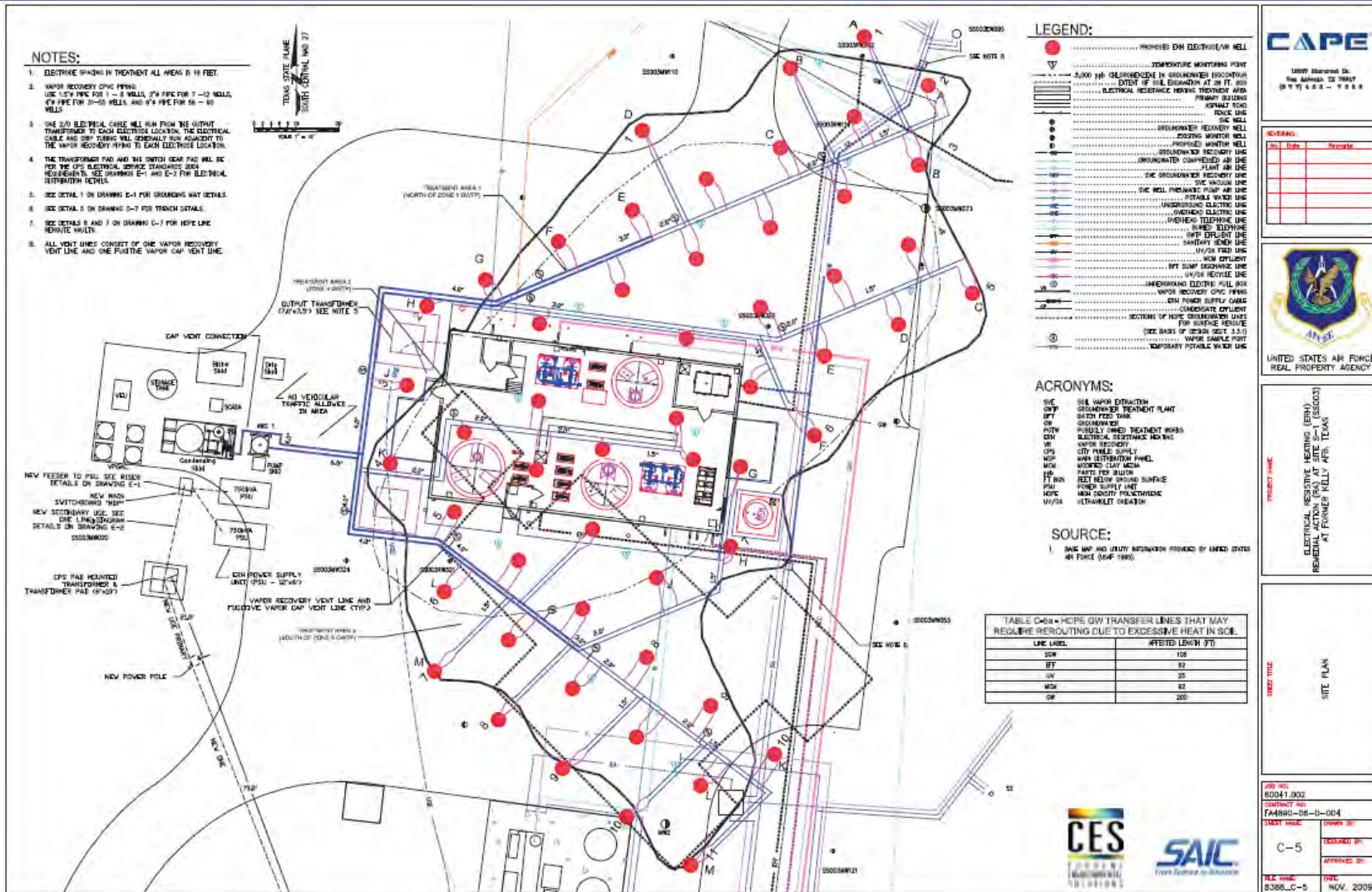
- **The ERH is expected to expedite groundwater remediation and reduce the Air Force's long term operation and maintenance cost.**
- **The Site S-1 ERH System is very similar to the Building 301 ERH System except that the S-1 ERH system is designed to target residual groundwater contamination as opposed to soil contamination.**
- **The project was awarded to CAPE Inc. in July 2009, and the project period of performance is 18 months.**



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# Site S-1

# ERH Electrode Locations





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# ***Site S-1 ERH***

# **Questions?**

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## Kelly Environmental Outlook



**Paul Carroll**  
**BRAC Environmental Coordinator**

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# ***Performance Based Remediation Contract***

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- **The Air Force is preparing a Firm Fixed Price Performance Based Remediation (PBR) contract at former Kelly AFB.**
  - **Addresses all sites with ongoing remedial actions.**
  - **Includes sites at Lackland AFB that are located in Zone 1 and included in the Kelly AFB RCRA Permit and Compliance Plan.**
  
- **PBR Objective is to reduce Air Force life-cycle costs while maximizing the number of site closures.**
  1. **Close as many sites as possible with no restrictions on use**
  2. **Optimized remedial systems to maximize efficiency**
  3. **Continue to comply with the TCEQ Permit & Compliance Plan**
  
- **The PBR contract is anticipated to be awarded by May 2010, and the period of performance is expected to be approximately six years.**



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# ***DBR2 Contractors***

- **The Design – Build, Restore, Remediate (DBR2) Contract vehicle has been selected for the Kelly PBR Contract. The following contractors are eligible to bid:**
  - **CAPE, Inc. - Small Business**
  - **Kemron Environmental Service, Inc. - Small Business**
  - **URS Group, Inc. - Large Business**
  - **CH2M Hill Constructors, Inc. - Large Business**
  - **Innovative Technical Solutions, Inc. - Small Business**
  - **Tetra Tech, Inc. - Large Business**
  - **Shaw Environmental, Inc. - Large Business**
  - **Environmental Chemical Corporation - Large Business**



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## Kelly Property Transfer Progress



**Paul Carroll**  
**BRAC Environmental Coordinator**

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# *Property Transfer Progress*

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- **The Air Force is currently working with EPA and TCEQ to ensure remedies are in place and to demonstrate Operating Properly and Successfully (OPS) in Zone 3 in order to transfer the remaining 368 acres of remaining property in FY10.**
- **Zone 3 includes most of the original industrial area at former Kelly AFB.**
- **The Air Force met with the EPA twice (December, January) to discuss the progress and status of the Zone 3 OPS.**
- **Zone 3 OPS is anticipated to be completed in the summer of 2010.**
- **Transfer of Zone 3 will complete the Whole Base Transfer of former Kelly AFB to Port San Antonio.**

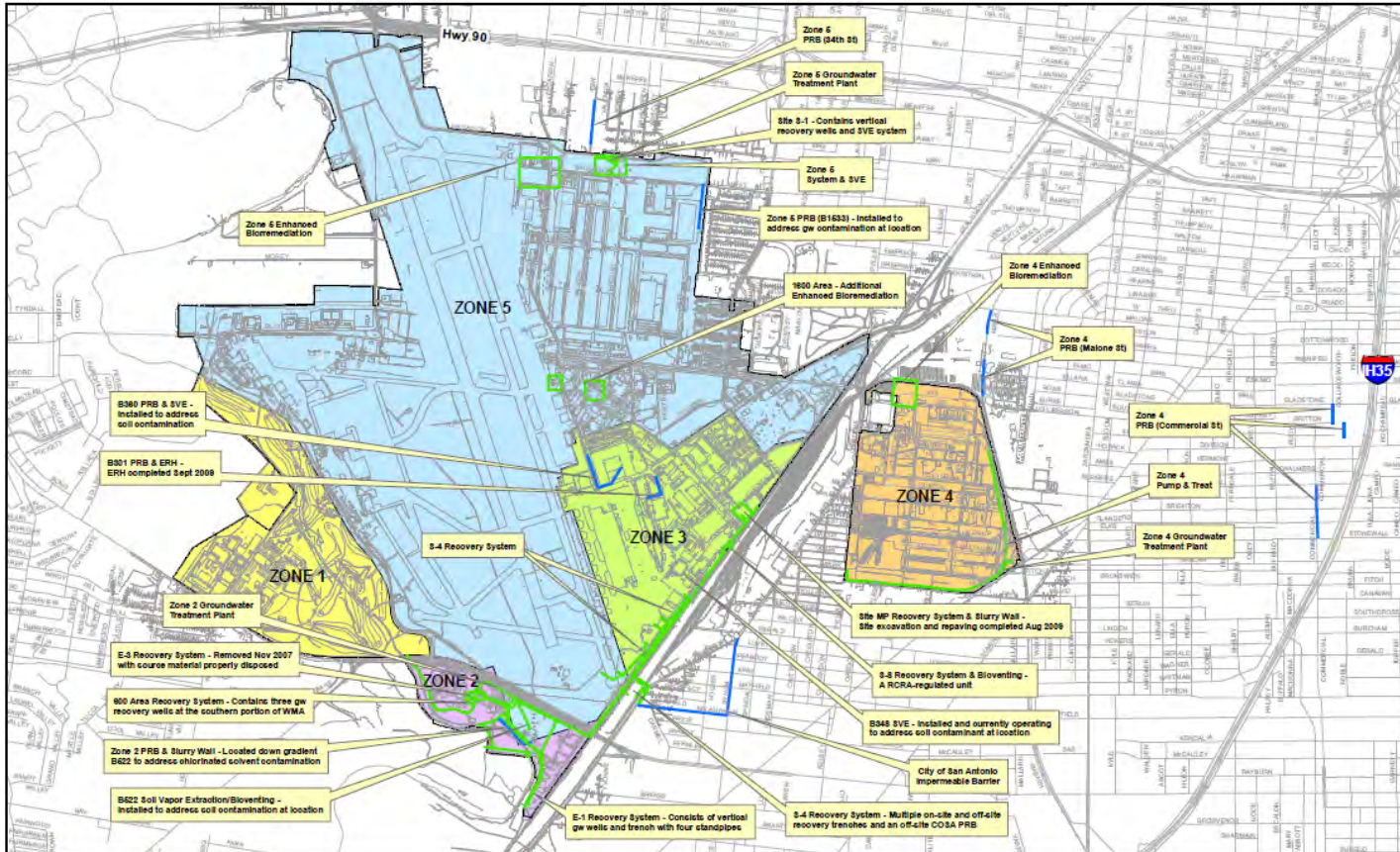


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# Kelly

# Remediation Systems

## Remediation Systems / Processes October 2009



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Date: 13 October 2009



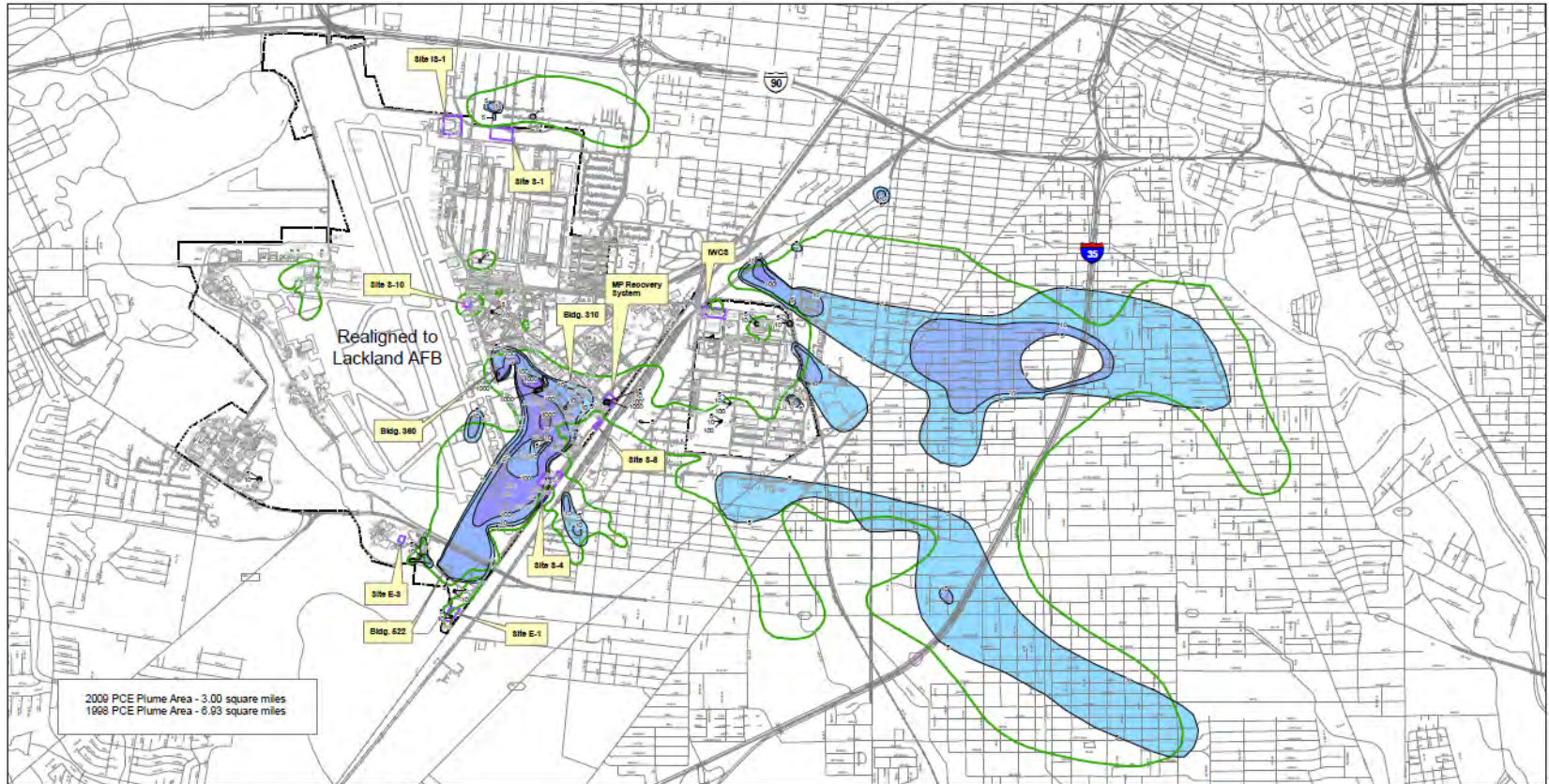
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Real Property Agency  
Former Kelly AFB, Texas





# PCE Plume Map

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Date: 17 February 2009

### Legend

- 5 parts per billion
- 10 parts per billion
- 100 parts per billion
- 1000 parts per billion
- 1998 PCE Plume
- Former Installation Boundary



Air Force  
Real Property Agency  
Former Kelly AFB, San Antonio, Texas



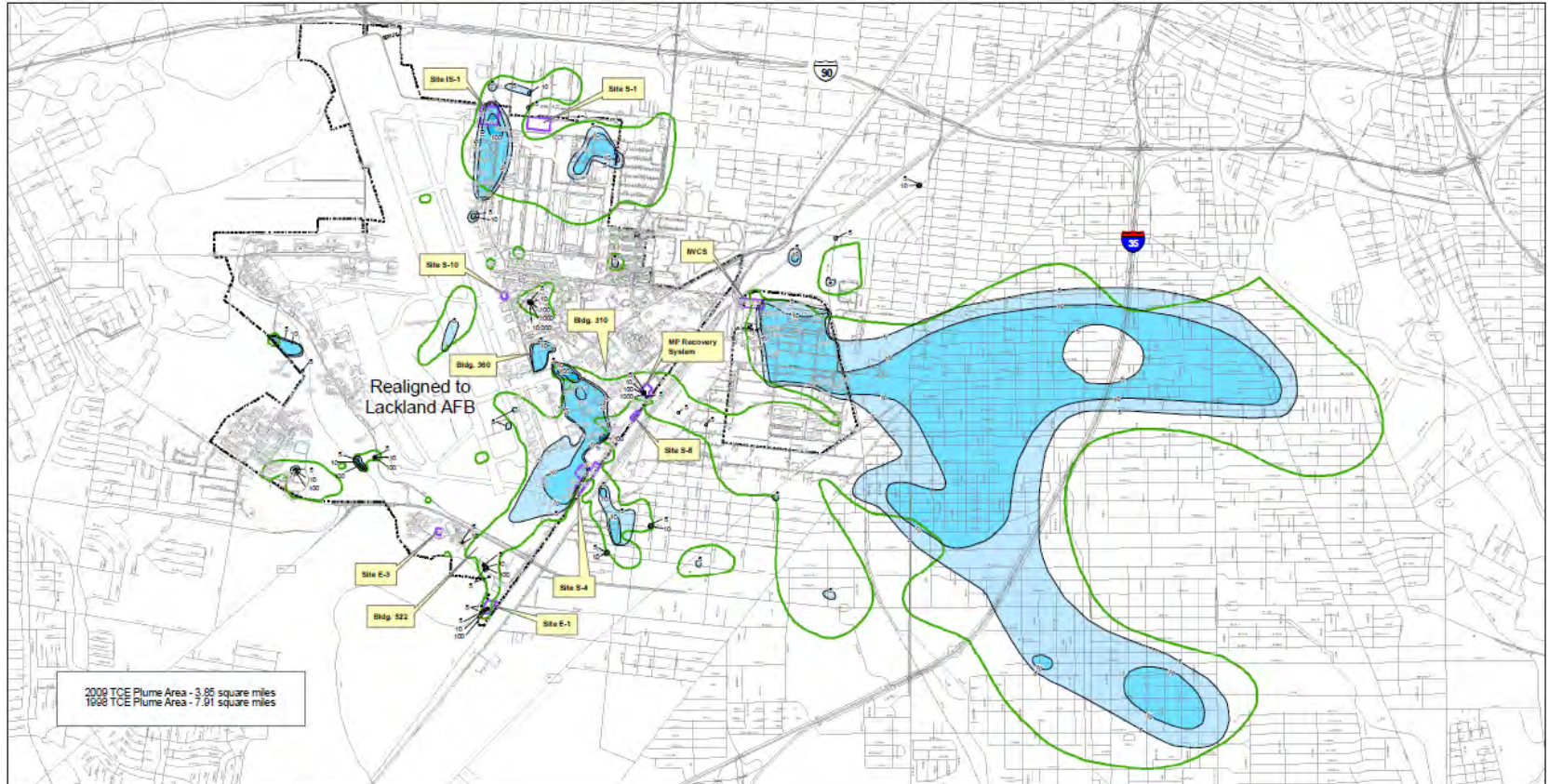
## 2009 PCE Basewide Compliance Plan (2008 Sample Well Data)

Source: Semiannual Compliance Plan Report, December 2008, HGL.



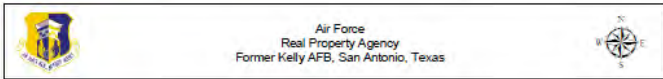
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# TCE Plume Map



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Date: 17 February 2009



**2009 TCE Basewide Compliance Plan  
(2008 Sample Well Data)**

Source: Semiannual Compliance Plan Report, December 2008, HGL



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# *Property Transfer Progress*

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**Questions?**



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# Public Comment

**Jose Martinez**  
**Facilitator**



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# **Agenda Items for next RAB**

**Jose Martinez**  
**Facilitator**





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# ***For More Information***

## ■ **Contact AFRPA Public Affairs:**

- **Public Information Line: 210-925-0956**
- **Fax: 210-395-9527**
- **Email: [afrpa.pa@lackland.af.mil](mailto:afrpa.pa@lackland.af.mil)**

## ■ **Documents are available electronically or on hard copy:**

- **Administrative Record Site:**  
**<https://afrpaar.lackland.af.mil/ar/docsearch.aspx>**
- **San Antonio Central Library**  
**Government Documents Section (2<sup>nd</sup> Floor)**  
**600 North Soledad, San Antonio, TX 78205**



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# Meeting Adjournment

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