

McClellan Air Force Base (AFB)  
Restoration Advisory Board (RAB) Meeting Minutes FINAL  
15 September 2009 -- McClellan, California

Time: 6:30 PM

Place: North Highlands Recreation and Park District, Recreation Center  
North Highlands, California

**RAB Member Attendees**

<u>NAME</u>	<u>AFFILIATION</u>
ROBERT BLANCHARD	COMMUNITY RAB MEMBER
GARY COLLIER	COMMUNITY RAB MEMBER
ADRIAN DEWALD	COMMUNITY RAB MEMBER
PAUL GREEN, JR.	COMMUNITY RAB CO-CHAIR
GLENN JORGENSON	COMMUNITY RAB MEMBER
DANA BOOTH	RAB MEMBER – LOCAL REUSE AUTHORITY
ALAN HERSH	RAB MEMBER – MCCLELLAN PARK
STEVE MAYER	AIR FORCE REAL PROPERTY AGENCY, CO-CHAIR
JAMES TAYLOR	CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD
PENNY REDDY	U.S. ENVIRONMENTAL PROTECTION AGENCY
STEPHEN PAY	DEPARTMENT OF TOXIC SUBSTANCES CONTROL

**I. Welcome, Introductions, and Meeting Guidelines**

Gaelle Glickfield welcomed the group to the meeting and introduced herself as the meeting facilitator. Attendees signed the sign-in sheet (Attachment 1), and picked up available handouts, including the agenda (Attachment 2).

The RAB members introduced themselves and the stakeholder group they represent. Ms. Glickfield invited everyone in the room, including community members, to introduce themselves and state if there is a particular topic they are interested in learning about at the meeting. Topics brought up by community members or RAB members but not immediately addressed will be added to a whiteboard “parking lot” to be either addressed later in the meeting or captured in the minutes.” No topics were identified in the introductions.

The general format of the meeting and agenda was outlined, including how to be recognized as a speaker during the meeting and when to ask questions.

## II. Agenda and Comments on Minutes

Ms. Glickfield referred the RAB the agenda and minutes from the May 2009 meeting. A Response to Comments from the May meeting was included in the RAB packet (Attachment 3)

Glenn Jorgenson asked a clarifying question regarding the acronym ESCA. Dana Booth explained it stands for Environmental Services Cooperative Agreement, and explained that in the minutes, an ESCA refers to the financial agreement between the County and the Air Force for early transfer with privatization project.

There were no other comments on the minutes; they are considered adopted as is.

## III. Community Co-chair Update

Paul Green, Jr., community co-chair, stated he is pleased the RAB tours have been re-instituted and that he feels all is generally going well. He reported that he was asked earlier why more people don't attend RAB meetings and he responded that he interprets it to mean that people are pleased with what is going on. In the past, when there were problems there were a lot of people. The fact that people don't come is a good sign.

Mr. Green also reported that Mr. Frank Miller questioned him about the cost of the meeting including advertising, audio/visual, and facilitation? He noted that the Air Force is required by law to advertise. He also noted that the RAB has addressed the need for a facilitator in the past and voted to keep an outside facilitator, but that might be something for the RAB to address again at some time in the future.

Mr. Green then gave the floor to Mr. Jorgenson who expressed his appreciation to the Air Force team for their rapid and thorough response to his questions from his recent review of the Draft Ecological Sites Feasibility Study.

Ms. Glickfield recorded the questions from Mr. Miller and invited RAB members to address them in their presentations if relevant to the presentation.

## IV. Air Force Cleanup Update

Steve Mayer presented the BRAC Cleanup Team and Stakeholders Field Review (Attachment 4) and the Key Documents (Attachment 5). He noted that this a very busy time for the Air Force and regulators in terms of the number of documents in process and requiring regulatory review. Only information and comments not presented in the attachments is recorded in these minutes.

Mr. Mayer said that the Building 252 Remedial Investigation is looking at soils beneath the building. The radiological contaminants in the building are part of a separate investigation.

Work on the Finding of Suitability for Early Transfer (FOSET) 2 is awaiting the completion of FOSET 1. Mr. Mayer said it typically takes 15 months to get through the privatization documentation process.

Mr. Mayer pointed out the good news story that the Non-Volatile Organic Compound Amendment to the 2007 Groundwater Record of Decision (ROD) has been signed by the Air Force and the agencies. It completes the groundwater remedy for the base.

The AOC G-1 ROD calls for institutional controls on some portions of the property to restrict digging. The property will continue in its current uses as museum and park.

The Parcel L2/L3 FOST includes two school facilities at the corner of Peacekeeper Way and Arnold Ave.

### *RAB discussion*

Mr. Green suggested that [5-Year] reviews should be ongoing rather than waiting every 5 years. He also thanked the Air Force for their ongoing work with North Highlands Recreation and Park District regarding transfer of Parcel M.

Mr. Green asked how much time is saved by the FOSET process and what is the benefit to McClellan Business Park of a FOSET rather than a FOST?

Mr. Mayer noted that the FOSET process with privatized cleanup is still new to the Air Force. He explained that normally a transfer does not occur until after cleanup is complete; however, a FOSET (Finding of Suitability for Early Transfer) is an early transfer. The idea behind the early transfer with privatization approach is that if there is development to take place, during the cleanup the developer can begin to position the property for its ultimate reuse. The FOSET seems to take approximately 15 months to get all the agreements, legal contracts and financial negotiations in place so that privatization can move forward and then cleanup still has to be done.

Mr. Hersh added that there are three basic ways that property transfers: 1. Finding of Suitability to lease, which is what is in place for most of the base – a 99-year lease with the United States of America. This arrangement has presented numerous difficulties with lenders and tenants of the properties. 2. Finding of Suitability to Transfer, which is a time-consuming process because the property must be found to be clean with no remaining obligations. 3. Finding of Suitability for Early Transfer, which allows a transfer of fee title with protections in place, such as institutional controls, and a program to get the actual cleanup done. The privatization provides a contract by which cleanup funds are obligated by the Air Force and lead agency authority is transferred from the Air Force to the EPA.

Mr. Green asked about the status of hot spots still not addressed that he saw in a presentation with Tetra Tech some years ago. Mr. Hersh replied that those spots were identified in photo libraries that have been shared with the Air Force. Further evaluation has clarified those concerns and all parties are in agreement that all potential “hot spots” have been addressed.

Mr. Green asked if the Air Force is mowing lawns (Item S in Field Review) for private organizations at the airfield. Mr. Mayer explained that mowing is done as a fire prevention effort.

Mr. Green asked how contaminants are still being identified at Building 252 this late in the project. Mr. Mayer explained that although that building has had a number of remediation activities in the past, technologies to detect contaminants have improved to the point that this year they were able to conduct a 100% scan of every inch of that building. That has identified residuals that were not cleaned during earlier efforts.

Mr. Mayer also noted that although the Five-Year Review is a required effort, all the cleanup programs in place at the base are continually monitored to ensure they are operating properly.

Mr. Jorgenson asked if there is now a cleanup goal or maximum contaminant level for hexavalent chromium. Mr. Taylor reported that the Environmental Health Hazard Assessment (OEHHA) has issued a draft public health goal that is in a 45-day public review through mid-October, 2009. The published draft goal is 0.06 micrograms per liter or parts per billion (ppb), which is very low and considerably lower than background. It could be as long as a year before a standard is adopted. Once adopted, it would become an official health protective number for California. Then the State would develop a maximum contaminant level that will consider the health aspect and the technical feasibility of meeting those levels. In some instances it may not be possible to deliver water that is completely free of these naturally occurring elements.

Currently, there is a federal standard of 50 ppb for total chromium, including hexavalent, and that is the goal recognized in the CERCLA process. Mr. Taylor noted that the just-signed groundwater ROD amendment addresses hexavalent chromium and includes a statement that if a new public health goal is adopted, the Air Force will re-evaluate the protectiveness of their systems.

Mr. DeWald stated that he would like to have a presentation on the Five-Year Review or have access to the document. Mr. Mayer said that would be done.

Mr. Hersh complimented the Air Force and the regulators for their work producing and reviewing all the documents that are in production. He also noted that the RAB in the past has expressed that Building 252 should be removed once cleaned. Lastly regarding the groundwater ROD amendment, he asked if the Air Force would be sending a press release and updating fact sheets and other information on the groundwater program. Mr. Mayer said that will be done.

Mr. Booth asked if the wells that are shut down are scattered across the base or concentrated in one plume. Mr. Mayer said they are scattered in various operable units. Mr. Booth requested that a graphic of be made that combines the groundwater plume information with the operable units.

Mr. Collier asked if former or future firearms sites could be open for citizens to use for target practice. The question was listed in the "parking lot."

## V. LRA Activities

Mr. Booth stated the sewer project on the east side of the base is finished with the completion of the lift station off Dudley Blvd. The remainder of the sewer project should be completed within

the next year. The County has finished the street overlay work for this year. There will be some additional work next summer.

## VI. Parcel C-6 Early Transfer with Privatized Cleanup Status Update

Ms. Reddy presented the update (Attachment 6). Only information and comments not presented in the attachments are recorded in these minutes.

The Record of Decision for this site was signed earlier this summer.

Mr. Green asked if the low-temperature thermal desorption process was essentially just taking the water out. Ms. Reddy explained that the soil is “cooked” in the kiln and then rehydrated after it comes out. The gases follow a different treatment train before they are released as clean. Mr. Green asked how they are tested. Mr. Hersh explained that a permit is granted from the Sacramento Air Quality Management District with specific levels and procedures for testing and monitoring.

Mr. Collier asked what will be done to protect the schools in the vicinity. Mr. Hersh said during part of the permit process they talked with the school officials and got their approval. In addition, the treatment pad is not in the vicinity of the schools. The materials will be trucked to the treatment pad in another location at McClellan so that it won't be near any schools or other sensitive uses.

Mr. Mayer noted that the Air Force did a treatability study of that process a few years ago and determined that it was successful for treating this type of contamination.

## VII. Regulatory Update

Mr. Taylor stated he would be happy to talk with anyone who has further questions about the hexavalent chromium guidelines.

Mr. Pay said he did not have anything to report.

Ms. Reddy asked if Building 252 will be demolished. Mr. Mayer said the Air Force is preparing it for that process.

Mr. Harris, Department of Toxic Substances Control, said the Air Force and state agencies are working to define the documents and tasks the regulators will be working on in the coming years. These are used for the Air Force to budget the oversight costs it pays the state agencies through the Defense State Memoranda of Agreement (DSMOA). Mr. Hersh asked if the furloughs are reducing the costs through the DSMOA. Mr. Harris and Mr. Pay said the state agencies only bill for hours worked and the relationship between furloughs and federal work is being determined through legal channels.

## X. Public Comment Period

Carolyn Gardner said she really appreciates the changes to the meeting format, the new information in the packets and the exchanges among the RAB members. She is finding the

meeting very informative and engrossing and compliments the group for the changes it has made.

### VIII. Small Volume Sites Remedial Investigation and Feasibility Study Preview

Mr. Mayer gave a presentation (Attachment 7) on the draft Small Volume Sites Remedial Investigation and Characterization Study and Feasibility Study. Only information and comments not presented in the attachments are recorded in these minutes.

#### *Clarifying questions*

Audience: Who determines background concentrations? Is there not just one safe level? I didn't know different areas could have qualifications.

Mr. Mayer explained that part of the investigation was to determine naturally occurring levels of contaminants on the base that are present in soils that would not have been impacted at all by industrial processes. A study of background levels was done to determine what was naturally occurring. That gives a baseline for comparison to areas where there were known industrial processes. That comparison allows the Air Force to determine what was contributed by the industrial activity itself.

Audience: Who does cost engineering and how does that fit into the pricing scheme?

Mr. Mayer said that is part of the feasibility study process. The engineering consulting firm CH2M HILL has been helping with that process. For the feasibility study, a cost range is used. It is meant to be a relative estimate for comparison and can be based on historical knowledge and current cost information.

#### *RAB discussion*

Mr. Hersh asked if there is any agreement with the state on whether or not any action is required on the non-colored areas (areas not investigated in the study) of the small volume sites map.

Mr. Pay said there is no agreement. Mr. Mayer said sites are all part of FOSET 1 and as part of that transfer process some broad additional restrictions may be placed on the areas through state land use controls and institutional controls.

Mr. Green asked who has final authority to approve no-action sites? Mr Mayer said it is part of the Record of Decision so it has to be approved by both the State and the EPA. Mr. Pay said that if the regulators disagree with the Air Force, there is a dispute process that goes up through the chain of command of each agency. Potentially, a decision could be issued by the highest level in the agency. Normally disputes are resolved at a much lower level.

Mr. Green asked if a no-action site can it be pulled out of the process and addressed separately and turned over to McClellan Park for quicker use. Mr. Mayer said that has already been done wherever feasible at McClellan. No-action sites frequently take more work to support that decision, so sometimes it is better to leave it in as part of the feasibility study process.

Mr. Booth pointed out that the 40 sites recommended as no-action will still be carried through the feasibility study process. In addition, he questioned whether no-action sites would still have institutional controls. Mr. Mayer clarified that no further action means no institutional controls. If there are institutional controls, then it is not a no-action site. Mr. Mayer and Mr. Pay noted that state land use restrictions may be applied outside of the CERCLA-driven institutional controls to some sites. Mr. Pay noted that much of those distinctions will depend on how those lots are drawn and divided.

Mr. Collier asked why we are cleaning up fuel related contaminants when the base has been and will continue to be used in the same capacity and will continue to have the same contaminants coming in. Mr. Pay explained that a no action decision is based on the current risk, not on the continuing use of the base. The ongoing uses may drive the remedy, such as institutional controls prohibiting a sensitive use.

Mr. Jorgenson asked if the tank farm extends across Roseville Road. Mr. Mayer said that site was transferred to Sacramento County under a FOSET many years ago.

Mr. Jorgenson asked if the investigation is complete. Mr. Mayer said it is basically complete, with the exception of one site along Roseville Road that is still being investigated. He noted that the regulators could ask for additional investigative work during their review process.

#### **IX. Community Co-chair Election Procedure**

This item was tabled until the next RAB meeting.

#### **VII. RAB Members' Questions, Advice, Comments, and Announcements**

Ms. Glickfield returned to the "parking lot" items.

1. The questions about cost of the meeting will be addressed in the meeting minutes.
2. Mr. Mayer chose to quickly answer the question about the firearms. He noted that there is a reuse of the base's firing range for public safety training for peace officers. Mr. Hersh said it is not available for use by the general public.

Ms. Glickfield asked for feedback on the more open format of the meeting. Mr. Green said he is in favor of it. It is very healthy for the community and for the group for the discussion to be interactive.

Mr. DeWald said he agrees with Mr. Green, although he is disappointed that Mr. Miller didn't get his answer; however, he does understand that it will be addressed in the minutes.

Mr. Mayer thanked everyone for coming and participating. The next meeting will be the holiday social on Dec. 1.

Mr. Booth suggested that there be a presentation on the groundwater program and a chronology of the cleanup success. A couple graphs and charts could be very informative.

Mr. Jorgenson suggested the screen be rotated for the audience.

Mr. Hersh supported Mr. Booth's suggestion.

Mr. DeWald requested the Air Force include a brief summary of the Five-Year Review in the next meeting.

Mr. Blanchard said he has been on the RAB since 1997 and stated it is incredible to see how much has been accomplished.

The meeting was adjourned at 8:45 p.m.

### *Parking Lot*

#### 1. Cost of the meeting?

*The costs listed below are rounded up to the nearest \$100.*

- *Public notices in the Sacramento Bee, North Sac News, Rio Linda News, and Commerce and Community newsletter: \$1400.*
- *Audio visual support: \$1400*
- *Meeting facilitation: \$400*
- *There is no charge for the meeting room at North Highlands Recreation and Park District.*





# McClellan Restoration Advisory Board

SEP 15, 2009 RAB Meeting  
North Highlands Community Center

Please sign the attendance sheet. This sign in sheet is used by the Air Force and EPA for mail list purposes

NAME(ORGANIZATION)	ADDRESS	EMAIL
Stephen Ray DTSC		Srey@dtsc.ca.gov
FRANK Miller	SAME	
Andy Coombs	CH2M Hill	
Robert Blanchard		
JAMES Taylor	Civil Works	
Iz Donnelly	Congressman Lungren	elizabeth.donnelly@mail.house.gov
Marcus Simpson	DTSC Public Participation	
John Harris	DTSC	jharris3@dtsc.ca.gov
Mike Malone	tetrattech MCP	
Ben Macisow	TETRA TECH MCP	
Paul Plummer	RAB	
Carlynn Handman		

**McClellan Restoration Advisory Board (RAB) Meeting  
North Highlands Park and Recreation District  
Tuesday, September 15, 2009, 6:30 – 8:30 pm  
Open House Poster Session 6:00 – 6:30 p.m.**

**AGENDA**

<u>TIME</u>	<u>TOPIC</u>	<u>LEAD</u>
6:30 – 6:35	Welcome & Introductions	Facilitator
6:35 – 6:40	Agenda & Comments on May Minutes	Facilitator
6:40 – 6:45	RAB Co-chair Update	Community Co-chair Paul Green Jr.
6:45 – 7:10	<b>Air Force Cleanup Update</b> <i>Goal: Provide an update of current field activities and key documents.</i> <i>Process: Presentation and Q&amp;A</i>	Air Force Steve Mayer
7:10 – 7:20	<b>Local Redevelopment Authority Activities</b> <i>Goal: Provide an update of Local Redevelopment Authority activities.</i> <i>Process: Presentation and Q&amp;A</i>	LRA Dana Booth
7:20 – 7:30	<b>Parcel C6 Early Transfer with Privatized Cleanup Status Update</b> <i>Goal: Update the RAB and community about the Parcel C6 privatized cleanup project, and to discuss issues as necessary.</i> <i>Process: Presentation and Q&amp;A</i>	EPA Penny Reddy
7:30 – 7:35	Regulatory Update	Regulatory Agencies
7:35 – 8:00	<b>Small Volume Sites Remedial Investigation Characterization Study and Feasibility Study Preview</b> <i>Goal: Provide preliminary information from the study to allow the RAB an opportunity to provide input on the development and evaluation of the cleanup alternatives for the small volume sites.</i> <i>Process: Presentation and Q&amp;A</i>	Air Force Steve Mayer
8:00 – 8:15	<b>Public Comment</b> <i>Goal: Provide opportunity for members of the public to comment.</i> <i>Process: Public members fill out a comment card indicating their desire to speak. The facilitator will call each person to the microphone. Speakers are asked to limit their comments to 3 minutes, however, more time may be allowed as necessary and available.</i>	Facilitator
8:15 – 8:25	<b>Community Co-chair Elections Procedure</b> <i>Goal: Codify in the RAB Operating Procedures the process for conducting community co-chair elections</i> <i>Process: Discussion and RAB vote</i>	Paul Green Jr.
8:25 – 8:30	<b>RAB Members Advice, Comments, &amp; Announcements</b> <i>Goal: Solicit advice from each RAB member for upcoming agendas, and provide an opportunity for RAB members to express brief comments and/or make announcements.</i> <i>Process: Around the table for each member to offer agenda suggestions, comments, and announcements; comments will be recorded and will form future agendas.</i>	RAB

## **MEETING GUIDELINES**

### **Ground Rules**

- *Be progress oriented*
- *Participate*
- *Speak one at a time*
- *Be concise*
- *Use "I" statements when expressing opinions*
- *Express concerns and interests (not positions)*
- *Focus on issues not personalities*
- *Focus on what CAN be changed (not on what can not be changed)*
- *Listen to understand (not to formulate your response for the win!)*
- *Draw on each others' experiences*
- *Discuss history only as it contributes to progress*

### **Facilitator Assumptions**

- *We are dealing with complex issues and no one person has all the answers*
- *Open discussions ensure informed decision making*
- *Managed conflict is good and stimulates creativity and innovation*
- *All the members of the group can contribute something to the process*
- *Everyone is doing the best they can with the knowledge they have now*
- *Blame is unproductive and dis-empowering*

## Response to Public Comment from the 19 May 2009 McClellan Restoration Advisory Board (RAB) Meeting

Commenter	Comment	Air Force Response/Action
Frederick Gayle	<p>This isn't a constitutional convention and I'm trying to think of something nice to place it as. I don't know whether you have a quorum. I've never seen a meeting in which the rules are not in place before you start. Those are the kind you do on the corner. You make the rules as you go. I was reading an article in the paper. Aaron Copeland is one of my favorite people – the common man. But I don't think we could have built the atomic bomb with the common people or the Panama Canal. Those were done not by the public but by military and the Mississippi waterway. So we have to be careful when you say who can do it better. Sometimes we don't read the history of it. Where would we be without the Mississippi waterway, great dams, TV Authority? Who built those? But I don't even know whether you've got a quorum. But I think you should get your rules in order because other than that you look kind of like you don't know what you are doing.</p>	<p>The RAB will be considering codifying a process for co-chair elections at its September 2009 meeting.</p>

**BRAC Cleanup Team and Stakeholders Meeting  
16 and 17 September 2009**

**FIELD REVIEW:****Groundwater Program Activities****a) McClellan Ground Water Treatment System (GWTS)**

The GWTS is operating at 1377 gpm with the following 10 wells shut down because VOC concentrations are less than the MCLs : OU B EW-284 (A zone), EW-307 (C), EW-309 (D), EW-364 (BC), OU D EW-86 (AB), OU A EW-435 (AB), EW-336 (A/B) OU C EW-137 (B), EW-446 (A), and OU H EW-454 (AB). These wells are being monitored for rebound. Wells EW-247, EW-308, and EW-383 were shutdown on 22 January to evaluate their effect on nearby well VOC concentrations. *Extraction Wells, EW-144 and EW-330 pump motors failed on 12 August, and 3 September, respectively. The wells are scheduled to be repaired the week of 14 September. Extraction Well EW-84 flow decreased by 47%. A new pump has been procured and the well is scheduled to be re-developed and the pump replaced the week of 14 September. On September 15, during a water main repair, there was a power interruption to five wells (EW-63, EW-246, EW-247, EW-415 and EW-364) on the C-6 parcel. The power was brought back on line; however, the power supply to EW-364 will need to be repaired. The GWTP LGAC removal commenced the week of 14 August. The CERCLA treatment system is operating normally. The ion exchange system is operating normally.*

**b) Investigative Cluster (IC) 29 GWTS Investigative Cluster (IC) 29 GWTS** (pre-treatment of ground water from dual-phase extraction wells). The IC 29 GWTS air stripper was bypassed on 5 January. All associated extraction wells are on-line directly to the main GWTS.

**c) Davis GWTS** - The Davis GWTS is shut down *for rebound and chemical in situ study*. Yolo County demolition activities at the site are complete. *Passive diffusion bag samplers were installed on 11 September in preparation for the semi-annual sampling event.*

**d) Ground Water Monitoring Program (GWMP)** The 4Q09 event is scheduled to begin on 5 October *with a base-wide groundwater level survey and well total depth measurements.*

**e) MW-641 Stepouts:** All of the 12 wells at four nested locations remain but only six wells are currently being sampled as part of the GWMP. These wells were sampled using Hydra Sleeves in 3Q09.

**Soil Vapor Extraction (SVE) Program Activities****f) Soil Vapor Extraction (SVE) Systems**

(3 of 14 SVE systems operating, removing vapors from 2 of 21 SVE sites). System uptime is calculated from *19 August through 14 September 2009.*

- 1) IC 1 vapor-phase granular activated carbon (VGAC) is not operating. The system was shut down for a rebound study on 31 March 2009.
- 2) IC 7 VGAC is not operating. The system was shut down for a rebound study on 31 March 2009.
- 3) IC 19/21 Flameless Thermal Oxidizer (FTO) is operating normally, treating vapors from IC 19 only. (100% uptime)
- 4) IC 19/21 VGAC is not operating. The system was shut down for a rebound study on 21 April 2008.
- 5) IC 23 SVE system is not operating. The system was shut down for a rebound study on 21 April 2008.
- 6) IC 25/29/30/31/32 SVE is not operating. The system was shut down for a rebound study on 11 January 2008.
- 7) IC 34/35/37 Flameless Thermal Oxidation (FTO) system is not operating. The system was shut down for a rebound study on 17 July 2008.
- 8) IC 34/35/37 VGAC is not operating. The system was shut down for a rebound study on 27 May 2008.
- 9) IC 42 SVE is not operating; the system was shut down for a rebound study on 11 July 2007.
- 10) OU C1/PRL 66B Flameless Thermal Oxidizer (FTO) is not operating. The system was shut down for a rebound study on 17 July 2008.
- 11) OU C1/PRL 66B VGAC is not operating. The system was shut down for a rebound study on 17 July 2008.

NOTE: *Italicized text represent update changes*

BCT & RPM Field Activities Update 16 & 17 Sep 2009

Margin or Underlined text represent corrective changes

- 12) OU D VGAC is operating normally, treating vapors from only OU D only. (100% uptime)
- 13) OU D Thermal Oxidizer is operating normally, treating vapors from OU D only. *The #1 pump of 2 pumps at the OU D system sewer outfall lift station failed and was removed on 9 September. A replacement pump has been procured and will be installed when available. The system continues to operate using pump #2. The sewer outfall flow meter failed and was replaced on 31 August.*
- 14) B 243 VGAC is not operating. The system was shutdown in support of drilling, sampling activities as a rebound study on 15 January.

- g) **Monitoring and Technology Well Destruction Project** - Field activities for the 2009 Groundwater Well Decommissioning Work Plan *were completed the week of 7 September.*
- h) **OU C1 SVE Optimization**— Phase 1 Concrete Removal/Demolition was completed in May. Phase 2 (restoration backfilling) began *the week of 31 August and is expected to be complete the week of 28 September.*

#### **Petroleum, Oil, and Lubricants (POL) Cleanup Activities**

##### **i) POL Program:**

- 1) Biovent (PRL S-040) system - *System operating normally.*
- 2) The Basewide Fuels Investigation—The contractor (e2m) has *begun installation of the new biovent systems at the Bldg 4 and Bldg 1036 POL/Fuels sites. The BW Fuels Investigation Report is under review by AFRPA and will be issued at the end of September.*

#### **Radiation Program Activities**

##### **j) Radiation Program.**

- 1) CS-10 – *The annual site inspection was completed on 20 July. The report from Clamshell (Co.) is being reviewed and minor repairs were completed. Site inspections are conducted weekly.*
- 2) **Building 252 Remedial Investigation** – *The radiological scanning of all the interior surfaces and roof of Building 253 and Building 252 has been completed. Results showed contamination still present. Air force is programming funds for decontamination of these contaminated areas at this time.*

#### **Soil Remediation, Investigation and Management Activities**

- k) **OU B1 Drainage Ditch and OU D Cap O&M Update** —The Second Quarter Inspection Reports were issued to the agencies in late August. The site walk-through for the third quarter *is scheduled for the week of 21 September.*
- l) **Sanitary Sewer System Replacement Project** Area C (OU-C) construction commenced 11 June on the East side of B/783. The SWPPP was in place prior to construction commencement. *Trench backfill has been completed in CWSs BC-4-1, BC-3-1, BC-1-3, BC-1-5, and BC-2-2, and BC-2-3. In addition, CWS completion has been achieved in CWS BC-2-2, BC-2-3, BC-3-1, and BC-4-1. Construction is currently underway in CWS BC-1-4. Area B (OU-C) construction start may be delayed until 2010. Lift Station 331 replacement construction is underway and all concrete vaults have been set.*
- m) **Industrial Waste Collection System:** More than 100 manholes have been investigated and all sediment sample collection activities are complete. In situ radiological measurements *are in the process of being completed with anticipated completion slated for 30 September.* Laboratory results will be available in *mid-October.*
- n) **Small Volume Sites Investigation:** The Draft RICS Addenda and FS document was submitted on 20 July for agency review. Contractor is still working on approval for a right of entry to get samples in the Union Pacific right away to complete the final sampling. *The permit has been signed and is in the hands of Union Pacific. Additional sampling to support the START evaluation at SA 106 was completed on 28 August.*
- o) **Follow-On Strategic Sites- Sampling.** The final work plan was submitted on 14 August. Field work began on 27 July *and was completed on 14 September. Sampling at all 43 sites has been completed and laboratory results have been received for approximately half of the sites. The data is being reviewed and step-outs will be proposed as needed.*
- p) **PRL 032** expanded RI sampling has resumed with the FOSS contract. *The walk over survey was completed and soil samples have been collected. Results are pending.*

NOTE: *Italicized text represent update changes*  
*Margin or Underlined text represent corrective changes*

BCT & RPM Field Activities Update 16 & 17 Sep 2009

q) **AO 328 Trench Sites** – The remedial investigation at the three trench sites along the groundwater conveyance pipeline were investigated the first week in July. Excavation, including potholing and slot trenching were performed and soil borings drilled at the three trenches. Soil samples were collected and sent to the laboratory. Laboratory results *have been received and are being reviewed and validated.*

r) **Skeet Range Site Investigation** – The Draft Final site investigation work plan *was submitted on August 27, 2009. Comments were due on September 9, 2009, and have been received to date from RWQCB and EPA. DTSC comments are still outstanding. Preparation of the final work plan and initiation of field work will occur in September.*

**Wetlands/Habitats Management and Maintenance Activities**

s) **Airfield mowing** has resumed and will continue until the beginning of the next rainy season.

t) **Field Mowing of MBP Leased Properties** Air Force oversight of mowing of MBP leased properties is ongoing to ensure that the conditions of the USFWS consultation are implemented.

u) **SAFR Wetland Permit** *Construction of concrete pad for practice facility will be commencing by the end of September.* It is anticipated that project completion with final grading, site cleanup and restoration will be early fall.

v) **AFRPA Firebreak Mowing and Discing** –Mowing and disking *is completed for the year.*

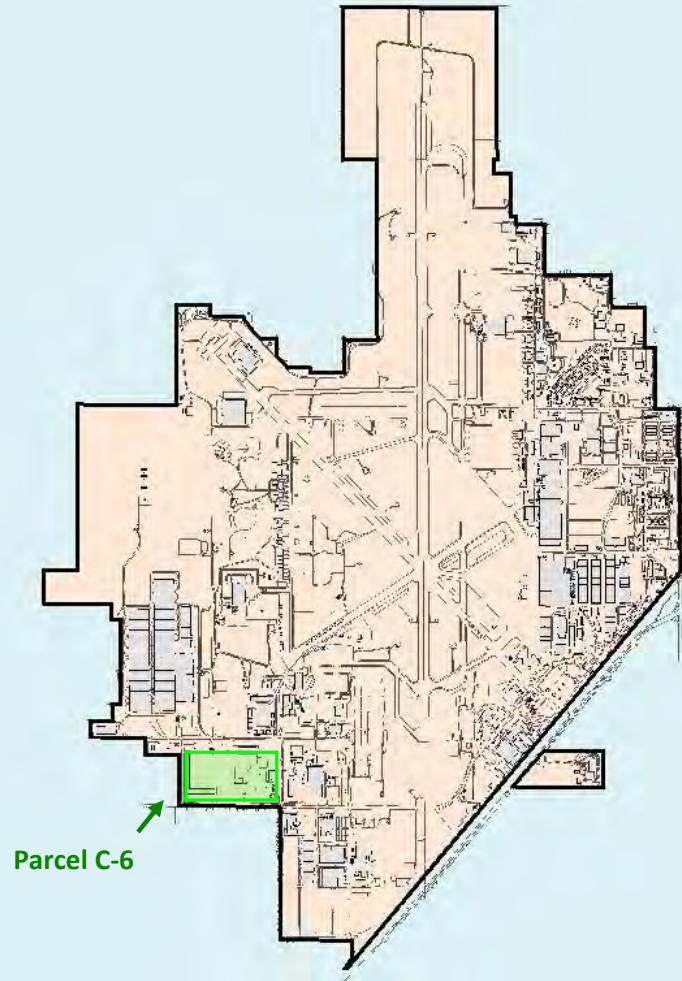
w) **MBP Firebreak Mowing and Discing** –Air Field Zone 1 firebreaks have been completed.

**Key Documents and Events of Interest to the RAB  
15 SEP 09 RAB Meeting**

	<b>Document</b>	<b>Document Description</b>	<b>Status</b>	<b>FOSET</b>
1	Initial Parcel #3 Proposed Plan / Record of Decision	Presents preferred cleanup alternatives for 45 sites	Pending FOSET #1 Privatization, EPA to prepare documents	FOSET #1
2	FOSET #1 (Finding of Suitability for Early Transfer)	Documents the environmental restrictions in support of an early transfer of property associated with IRP sites in the LRA Initial Parcel ROD #2 and ROD #3	Document has been revised to reflect privatization strategy, anticipate completion in conjunction with privatization schedule, anticipated completion late 2009	FOSET #1
3	Small Volume Sites Remedial Investigation Characterization Summaries/Feasibility Study	Details investigation results and evaluates cleanup alternatives for 91 sites.	Agency Reviewing Draft. Final estimated Jan 2010.	FOSET #2
4	Building 252 Remedial Investigation Characterization Summary/Feasibility Study	Details investigation results and evaluates cleanup alternatives for Building 252	Agencies reviewing Draft. Final estimated Jan 2010.	FOSET #2
5	FOSET Large #2 (Finding of Suitability for Early Transfer)	Documents the environmental restrictions in support of an early transfer of property. Includes 95 sites (primarily from Small Volume Sites ROD and Building 252).	Document is final and awaiting amendment and signature in conjuncture with FOSET #2.	FOSET #2
6	Follow-On Strategic Sites Remedial Investigation Characterization Summary/Feasibility Study	Details investigation results and evaluates cleanup alternatives for additional landfill and soil sites	Draft Follow-On Strategic Sites RICS and FS expected to be issued in Dec 2009	FOSET #3
7	Focused Strategic Sites ROD	Documents cleanup decision for 11 sites, including firing training area, small arms firing range and large landfills	Release of Draft ROD is anticipated for Dec 2009.	FOSET #3
8	Ecological Sites Record of Decision	Documents cleanup decisions for ecological sites, creeks and vernal pools	Draft Final Feasibility Study due Oct 2009. Proposed Plan anticipated April 2010.	FOSET #3
9	FOSET #3 (Finding of Suitability for Early Transfer)	Documents the environmental restrictions in support of an early transfer of property. Includes 133 sites.	Document is final and awaiting revision in conjunction with Privatization strategy.	FOSET #3
10	Non-VOCs in groundwater ROD amendment	Documents cleanup decision for Non-VOCs in groundwater, will be a ROD amendment to Groundwater VOC ROD completed in 2007	Complete. Final signature received 15 Sep.	



11	AOC G-1 Record of Decision.	Addresses two suspected burial pits and small arms firing range in northeast McClellan (ballfields area)	Public Comment Period held in June. Draft Final ROD due 18 Sep.	
12	Parcel M FOST	Finding of Suitability for Transfer document approximately 25 acres, including Freedom Park and Aerospace Museum.	Draft FOST due 18 Sep, with 30 day public comment period.	
13	Parcel L2/L3 FOST	Finding of Suitability for Transfer document approximately 4.2 acres	Final is on hold until receipt of OPS (Operating Properly and Successfully) determination from EPA.	
14	Five Year Review	Formal evaluation of ongoing cleanup activities to ensure they are working properly.	Completing agency signature process. Expect to complete by 30 Sep.	



# McClellan Parcel C-6

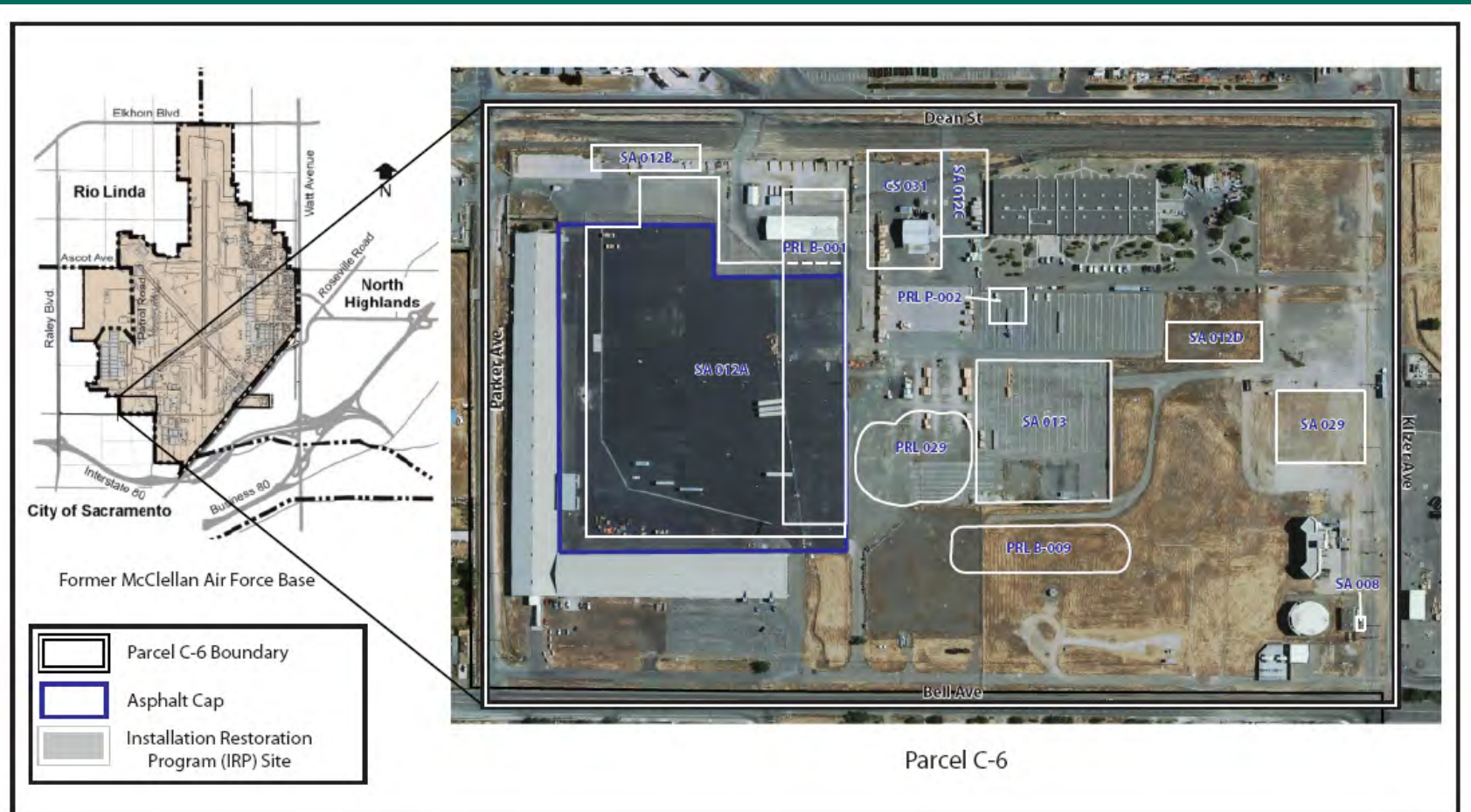
(Former McClellan Air Force Base)

## Update

## September 15, 2009

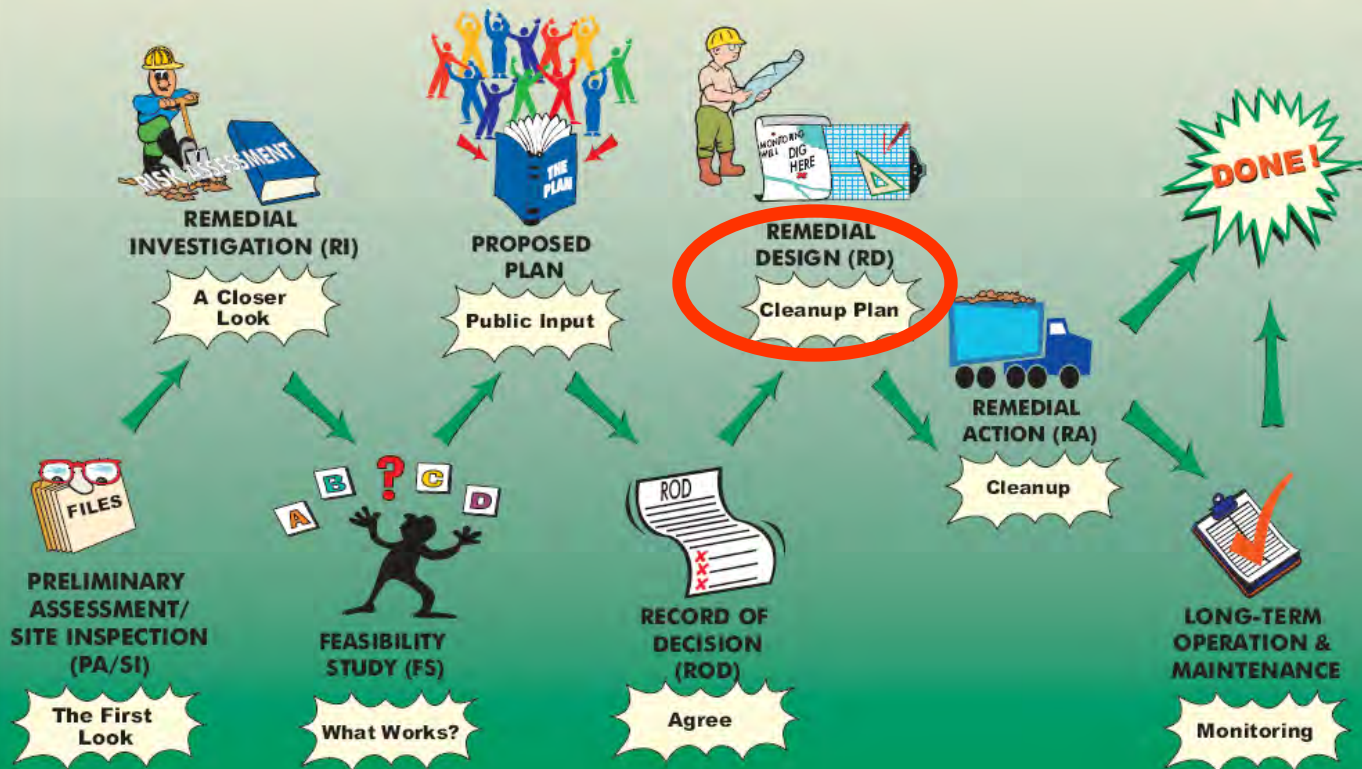


# Parcel C-6 Southwest Corner of McClellan AFB



# Where are we now?

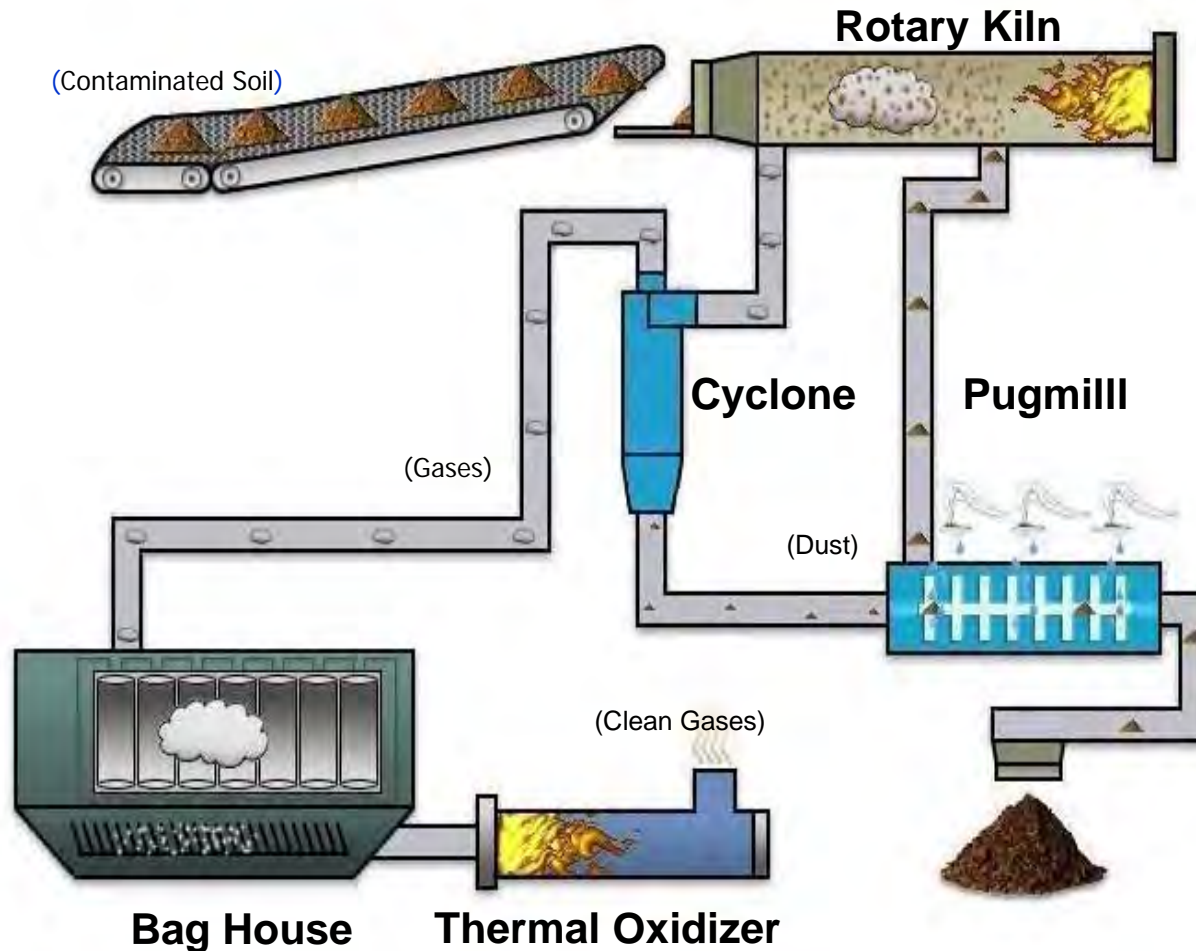
## Comprehensive Environmental Response, Compensation and Liability Act



# What clean up option was selected?

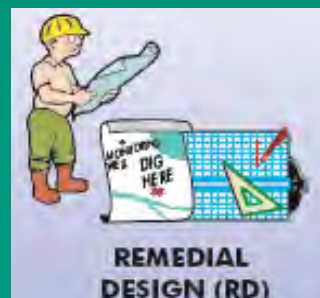
- Soil excavation and either:
  - On-site treatment by low temperature thermal desorption (LTTD); on-site reuse of treated soil that meets clean up levels.
  - Off-site disposal at landfill for metals and PCBs that exceed certain levels
- Institutional controls to prohibit residential use at all but one site.

# Low-Temperature Thermal Desorption (LTTD)



# What's the status of the remedial design?

- EPA and State agencies submitted comments on the remedial design earlier this month.
- Comments were mostly concerned with site-specific details of the remedial design



# What's Next?

- Meeting with McClellan Business Park and regulators to discuss comments on the remedial design work plan.
- EPA and State agencies will be at transportation fair on October 8, 2009 to discuss the Parcel C-6 Work and answer questions.



# Information Repositories

**EPA Region 9  
Superfund Records Center**  
95 Hawthorne Street  
San Francisco, CA 94105  
(415) 536 -2000

Hours: Mon– Fri, 8 am – 5 pm

**North Highlands – Antelope Library**  
4235 Antelope Road  
Antelope, CA 95843  
(916) 264-2700

Hours: Mon and Wed, noon – 8 pm  
Tues and Thurs, noon – 6 pm  
Friday, 1 pm – 5 pm  
Saturday, 10 am – 5 pm  
Sunday, CLOSED

# Contact Information

## **Yvonne Fong**

Project Manager

U.S. EPA Region 9

75 Hawthorne Street, SFD-8-1

San Francisco, CA 94105

Phone: (415) 947-4117

Fax: (415) 947-3520

Email: [fong.yvonnew@epa.gov](mailto:fong.yvonnew@epa.gov)

## **Viola Cooper**

Community Involvement Coordinator

U.S. EPA Region 9

75 Hawthorne Street, SFD-6-3

San Francisco, CA 94105

Phone: (415) 972-3243

Toll free: (800) 231-3075

Fax: (415) 947-3528

Email: [cooper.viola@epa.gov](mailto:cooper.viola@epa.gov)

[Site Overview Webpage](http://www.epa.gov/region09/McClellanAFB)

[www.epa.gov/region09/McClellanAFB](http://www.epa.gov/region09/McClellanAFB)

# State Agency Contact Information

## **Carolyn Tatoian-Cain**

Senior Hazardous Substances  
Specialist  
Department of Toxic Substances  
Control  
8800 Cal Center Drive  
Sacramento, CA 95826  
Phone: (916) 255-3771  
Email: [ctatoian@dtsc.ca.gov](mailto:ctatoian@dtsc.ca.gov)

## **James Taylor**

Engineering Geologist  
Central Valley Regional Water  
Quality Control Board  
11020 Sun Center Drive #200  
Sacramento, CA 95670  
Phone: (916) 464-4669  
Email: [jdtaylor@waterboards.ca.gov](mailto:jdtaylor@waterboards.ca.gov)

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# McClellan

## Small Volume Sites

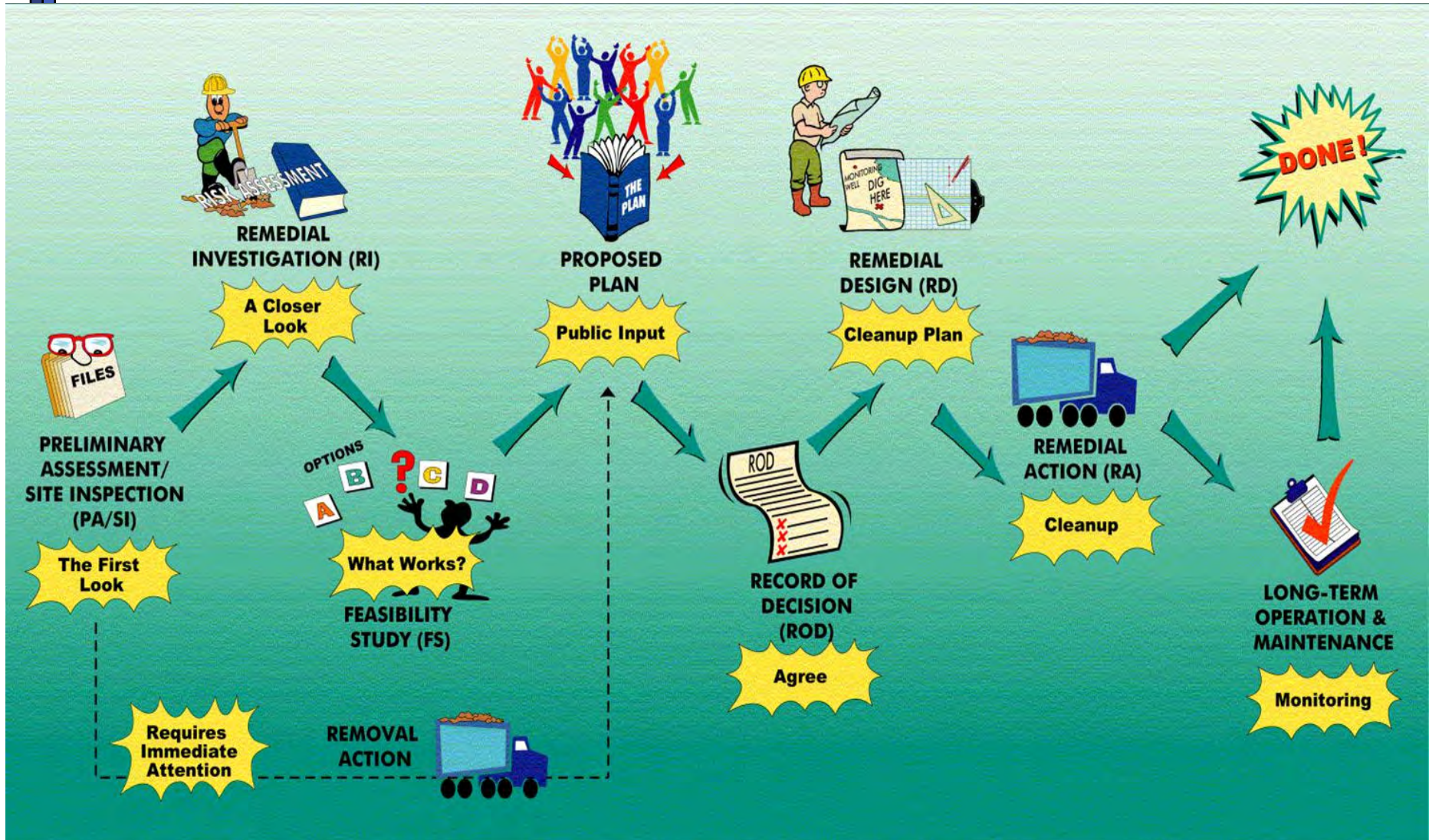
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Air Force Real Property Agency  
Steve Mayer  
Base Environmental Coordinator



15 September 2009

# CERCLA Process





# Small Volume Sites

- Industrial Sites
  - Repair shops
  - Paint shops
  - Washracks
  - Industrial waste lines
  - Former sewage treatment plant
  - Sludge drying beds
  - Underground storage tanks
  - Hazardous waste staging and discharge
- Contaminants in soils and shallow soil gas
- Groundwater contaminants addressed in 2007 Groundwater Record of Decision

# Contaminants of Concern



- Shallow soil gas contaminants: Volatile organic compounds (VOCs)
  - TCE
  - Carbon tetrachloride
  - Chloroform
  - PCE

# Contaminants of Concern



- Soils contaminants: Non-volatile organic compounds (non-VOCs)
  - Metals
    - Cadmium
    - Lead
  - Total petroleum hydrocarbons (TPH)
  - Semi-volatile organic compounds
    - PAH: naphthalene, benzo(a)pyrene
  - Radium

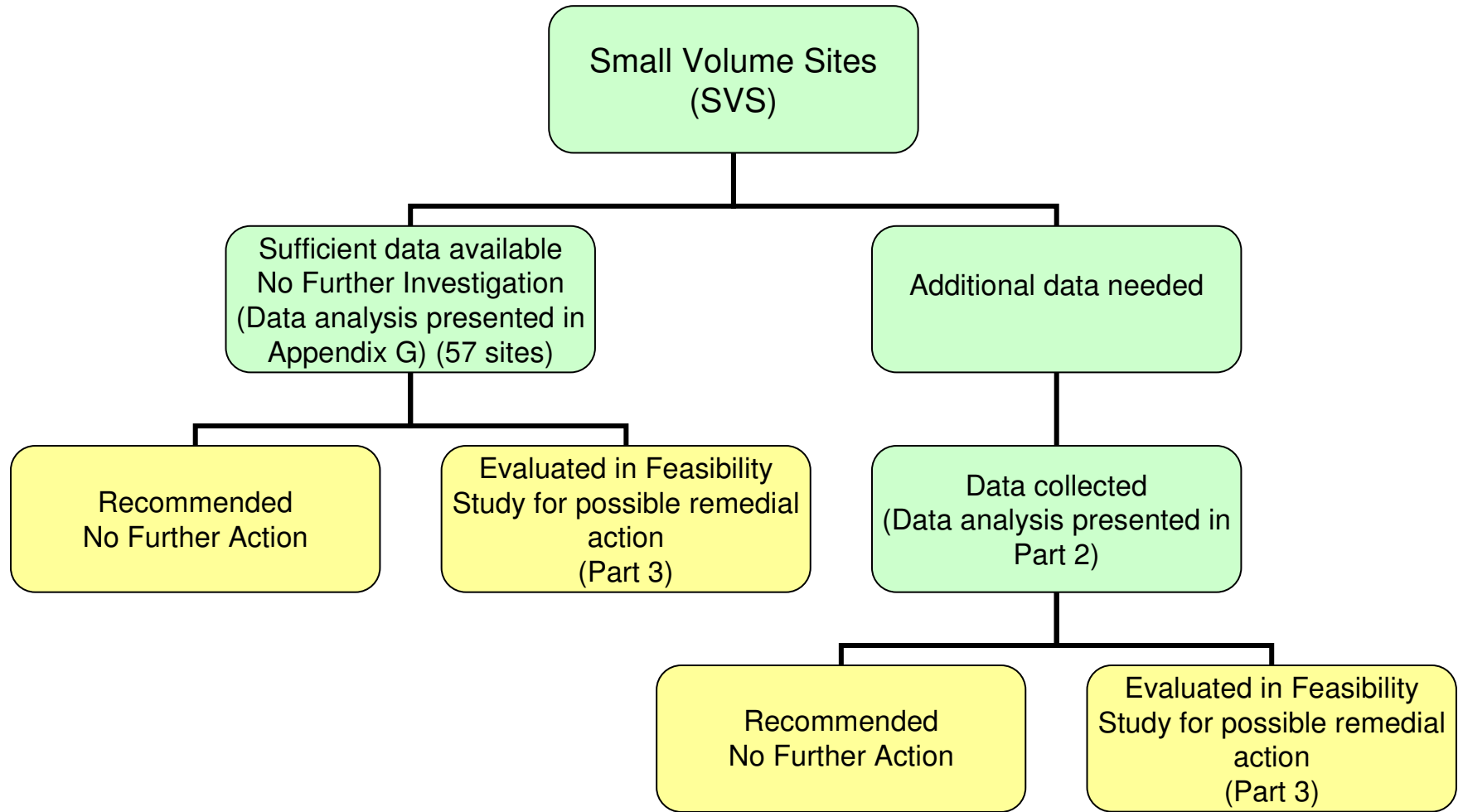


# Small Volume Sites Status



- Remedial Investigation Characterization Summary Addenda and Feasibility Study
  - Presents data collected over **XX** years
  - Analyzes risks to human health and the environment
  - Establishes cleanup goals
  - Evaluates cleanup options to be carried forward to Proposed Plan
  - Recommends some sites as “no action”
- Draft RICS/FS in regulatory review

# RI/FS Process



# Site Screening Considerations for Further Investigation in FS



- Each site considered independently
  - Estimated risks based on maximum concentrations
  - Extent of contamination
  - Background concentrations
- 51 sites included in Draft Feasibility Study
- 40 sites recommended as No Further Action



# Cleanup Goals

- Protect human health
- Protect surface water and groundwater quality
- Protect the environment

# General Remedial Alternatives



Action	Remedial Technology	Representative Options
<b>No Action</b>	None	None
<b>Institutional Controls</b>	Governmental controls	Zoning and other ordinances Local permits Air Force encroachment permit
	Proprietary controls	Deed covenants SLUC
	Enforcement and permit tools	Federal Facilities Agreement
	Informational devices	Deed notice Advisories
	<b>Monitoring</b>	Monitoring

# General Remedial Alternatives



<b>Action</b>	<b>Remedial Technology</b>	<b>Representative Options</b>
<b>Engineered Controls</b>	Physical restrictions	Fencing
	Surface controls	Vapor barrier Surface cover
	Vapor collection/removal	Gas collection system Ventilation system
	Sediment control	Sediment collection
<b>Removal</b>	Excavation	Soil excavation
<b>Treatment</b>	In situ biological treatment	Bioventing
<b>Disposal</b>	Offbase landfill	LLRW/mixed waste, Class I or II landfill
	Onbase consolidation	Consolidation unit

# Specific Alternatives Evaluated



- No Action
- Institutional controls (ICs) to prohibit residential use (VOC2)
- ICs to mitigate shallow soil gas (VOC3)
- ICs, engineered controls, monitoring (Non-VOC2)
- Bioventing (Non-VOC3)
- Excavation and disposal (Restricted land use) (Non-VOC4a)
- Excavation and disposal (Unrestricted land use) (Non-VOC4b)



# EPA Evaluation Criteria

Each site evaluated independently for all applicable alternatives

- ❑ Overall protectiveness of human health and the environment (including groundwater)
- ❑ Compliance with state and federal environmental requirements
- ❑ Long-term effectiveness
- ❑ Reduction of toxicity, mobility or volume of contaminants through treatment
- ❑ Cost
- ❑ Short-term effectiveness
- ❑ Implementability
- ❑ State acceptance
- ❑ Community acceptance



# Next Steps



- Draft Feasibility Study in regulatory review
  - RAB participation encouraged during FS process
- Final Feasibility Study: **January 2010??**
- Proposed Plan of Air Force's preferred alternative
  - Public comment period **Summer 2010**
- Record of Decision: **Late 2010**