



# Environmental Cleanup Program

## Beale Air Force Base Completes Environmental Data Gaps Investigation at Site PL582, Lincoln Receiver Site, Lincoln, California

Beale Air Force Base (AFB) recently completed an environmental investigation at Site PL582, the Lincoln Receiver Site. The investigation was necessary to determine the extent of environmental contamination in groundwater and estimate risks to human health and environment from that contamination. The investigation included drilling more than 30 borings, installing 11 new groundwater monitoring wells, and collecting and analyzing environmental samples of soil, soil vapor, groundwater, indoor air, and outdoor air. The results of the investigation, including an assessment of potential risks to human health, ecological receptors, and water resources, were published in the Site PL582 Data Gaps Investigation Summary Report, which was submitted to and approved by the Central Valley Regional Water Quality Control Board (Central Valley Water Board) and the California Department of Toxic Substance Control (DTSC).

### Site Background

Site PL582 is approximately 25 miles south of Beale AFB on Moore Road, west of Highway 65 in Lincoln, California. The site was formerly used as a backup electrical generator facility in support of activities at the McClellan AFB Lincoln Communications Annex. Fuel oil for the generators was supplied by three former underground storage tanks (USTs). Use of the site as a backup generator facility was discontinued in 1999 when McClellan AFB was closed. Management of the site was then transferred to Beale AFB. The site is currently considered a “remote site,” where most of the electrical systems still operating are monitored remotely. Building 4131 is currently used on a part-time basis by maintenance workers. Personnel generally are onsite only once per week to check on or repair the electrical systems. The Air Force has designated the current and planned future use of Site PL582 as industrial.



Building 4131 at PL582.

### Data Gap Investigation Results

Contamination at Site PL582 stems from two distinct releases: a petroleum release from former USTs and associated piping and a trichloroethene (TCE) release northwest of Building 4131, possibly from former degreasing activities. Contamination resulting from the release of fuel oil from the former USTs was previously addressed by excavation of contaminated soil during two events, one in 1989 and another in 2008. During the 2008 excavation, an oxygen-releasing compound was placed in the subsurface prior to backfilling the excavation to promote degradation of the fuel by naturally occurring microbes.

The results of the investigation indicate that TCE in groundwater is the only contaminant of concern remaining at the site that continues to pose a risk to human health and groundwater quality. The maximum TCE concentration detected in groundwater in 2015 was 16.6 µg/L, which is three times the State of California maximum contaminant level of 5 µg/L. The TCE groundwater plume extends nearly 1,000 feet northwest (the direction of groundwater flow) of the suspected TCE source area. Concentrations of TCE and contaminants related to the fuel release that have been detected in soil, soil vapor, and indoor air are low and do not pose unacceptable risks to human health.



Hollow-stem auger drilling activities at Site PL582 during Summer 2015.

## Next Steps

The Air Force is managing cleanup of Site PL582 under the Resource Conservation and Recovery Act (RCRA). The Air Force is preparing a Statement of Basis/Corrective Measures Implementation Work Plan (SoB/CMI WP) using the results of historical environmental assessments and the Site PL582 Data Gaps Investigation. The SoB/CMI WP serves as the decision document under RCRA and will evaluate alternatives and select the final corrective measure to address site-related contamination and protect human health and the environment. A draft version of the SoB/CMI WP has been submitted to the agencies representing the State of California (the Central Valley Water Board and DTSC) for approval. After approval, the draft final version will be made available for public review and comment. Beale AFB invites the public to review the document and provide comments. Public comments will be documented and addressed in the final version of the SoB/CMI WP.

## Restoration Advisory Board welcomes new Co-chair, Colonel Danielle Barnes

The Beale Air Force Base (AFB) Restoration Advisory Board (RAB) is pleased to welcome the new Beale AFB Co-Chair, Colonel Danielle Barnes. Currently, Col Barnes commands the 9th Mission Support Group at Beale AFB, leads and supervises the activities of more than 1,400 military and civilian personnel, and oversees resources of more than 550 facilities, spanning 23,000 acres. Col Barnes replaces Lt Col Martin J. Pantaze as the RAB co-chair.

Col Barnes' educational background includes a Bachelor's degree in professional aeronautics from Eastern Kentucky University and a Master's degree in Systems Safety from Embry-Riddle Aeronautical University, where she graduated

with honors. She is a master-rated Air Traffic Controller and continually advances her education through completion of additional training in Air Command.



Col Danielle Barnes, the new Beale AFB RAB Co-chair.

Col Barnes earned her commission through Air Force ROTC program at the University of Kentucky. Her deployment experience includes tours in Operation Iraqi Freedom and Operation Enduring Freedom at Kirkuk Air Base Iraq and Sheikh Isa Air Base Bahrain, respectively. She also served a remote tour in the Chairman, Joint Chief of Staff's Afghanistan/Pakistan HANDS program as an advisor to the Government of the Islamic Republic of Afghanistan. Most recently, she served as a National Defense Fellow at the Weatherhead Center for International Affairs at Harvard University. Stateside, Col Barnes has completed assignments in Florida, Oklahoma, Mississippi, South Dakota, Alaska, New Mexico, Alabama, Massachusetts, Virginia, and Washington, DC. This is Col Barnes' second assignment at Beale AFB, where she previously served as Commander of the 9th Operations Support Squadron from June 2012 through June 2014.

Throughout her career, Col Barnes has received numerous military awards and decorations, and her background and experience will make her a valuable member of the RAB.



## Reminder: Upcoming Changes to the Restoration Advisory Board

The Environmental Restoration Program is moving into the next phase as sites are successfully cleaned up and closed, and remedies are operating at sites with remaining contamination. Changes to the structure of the Beale Air Force Base (AFB) Restoration Advisory Board (RAB) and the frequency of RAB events are being considered. Initial requirements for RAB members were outlined in the original RAB Charter signed in 1996, when the RAB was formed. To keep the public informed of the numerous ongoing investigations and interim remedial actions, the number of required annual meetings, tours, and newsletters gradually increased with the number of active sites at Beale AFB; however, with fewer active sites, less RAB involvement is required.

The proposed changes will be presented for membership vote at the November 17, 2016, RAB meeting and will require a quorum for approval. Significant changes include a reduction in the number of annual meetings and tours and the number of newsletters per year. Additional changes include a reduction in the required minimum number of RAB members. If approved, these changes will be adopted in January 2017, when a new community RAB Co-chair is elected. The charter will be reviewed annually to identify future efficiencies as the ERP continues to close active sites.

The final proposed amendment to the RAB Charter will be sent to all RAB members prior to the November 17 meeting. All RAB members are strongly encouraged to attend the November 17 RAB meeting so that a quorum approval is possible. RAB members who are unable to attend are asked to send a replacement to vote by proxy.

RAB members and the public may contact Beale AFB's Restoration Program Manager, Darren Rector, via email at [darren.rector.2@us.af.mil](mailto:darren.rector.2@us.af.mil) regarding questions or concerns about the proposed RAB changes prior to the November 17, RAB meeting. Additional meeting details are provided at the end of this newsletter.

## Public Notice of Signings

The Air Force, the California Department of Toxic Substances Control and the Central Valley Regional Water Quality Control Board have signed the Statement of Basis/Corrective Measures Implementation Work Plan (SoB/CMI WP) for Sites CG517 and CG041-517. The SoB/CMI WP is a legally binding document that has been approved by all parties.

The SoB/CMI WP identifies No Further Action for Site CG517 soil, sediment, and surface water and enhanced reductive dechlorination, enhanced attenuation, and land use controls for groundwater as the corrective measure for Site CG041-517. The public was invited to comment on the Air Force's selected corrective measure during a 30-day public comment period from July 8 to August 7, 2016. No comments were received from the public during this time.

The signed SoB/CMI WP and related documents are available for public review in the Information Repository (IR) for Beale AFB. The IR is located at the Yuba County Library, 303 Second Street, Marysville, California 95901. These documents are also accessible online by visiting the Administrative Record, at <http://afcec.publicadmin-record.us.af.mil/>.

For more information, please contact Darren Rector, the Beale AFB Environmental Restoration Program Manager, at (530) 634-2606 or [Darren.Rector.2@us.af.mil](mailto:Darren.Rector.2@us.af.mil).

## Restoration Advisory Board Tours and Meetings

You are cordially invited to attend public RAB tours and meetings. RAB meetings are held at the One Stop Center for Business and Workforce Development, Second Floor, 1114 Yuba Street in Marysville. The next RAB meeting will be held on November 17, 2016, from 6:00 to 7:00 p.m. There are no RAB activities scheduled for December.



Members of the Beale AFB RAB and other participants from the public tour an upgraded KC-135 during the September 15 RAB Tour.

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For more information on the Beale AFB RAB, to be placed on the mailing list, or to inquire about becoming a RAB member, please contact any of the following:

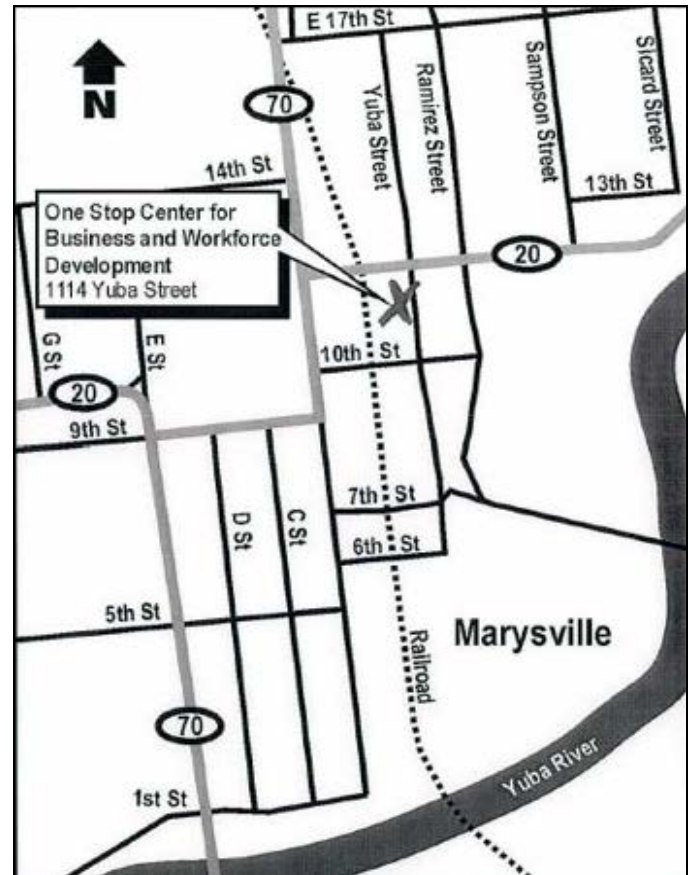
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For more information on the Beale AFB RAB's upcoming activities, please contact:

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2016 RAB Schedule		
January 21 	February 	March (TBD) 
April 21 	May 	June 16 
July 21 	August 	September 15 
October 	November 17 	December 