This fact sheet covers environmental restoration activities that have occurred at Edwards AFB, California, since the November 2019 Restoration Advisory Board meeting and planned future activities. Because of COVID-19, this fact sheet is being issued in lieu of the November 2020 RAB meeting.

Selected by a majority vote of Restoration Advisory Board public representatives, Victor Yaw became the RAB Public Co-Chair in September. Representing the community of Mojave on the RAB since 1997, Yaw will share chairmanship duties with Colonel Randel Gordon, 412th Test Wing Vice Commander and RAB Air Force Co-Chair.

The board also gained Raj Malhi and Darrell Dorris as the primary and alternate Lancaster public representatives, respectively. Vacancies remain open for Boron, NASA Armstrong, North Edwards, North Base and South Base. Anyone who lives or works in these communities is welcome to apply to be a representative.

New Contracts Awarded

Edwards environmental restoration program managers worked to secure two new contracts, both awarded in late September. One contract covers basewide groundwater monitoring and operations and maintenance activities for three years, with a fourth year included to complete document reporting. Optimization of treatment systems will also be addressed under the basewide contract.

The second contract is to conduct the first phase of a Remedial Investigation into emerging contaminants called perfluorooctane sulfate/perfluorooctanoic acid, or PFOS/PFOA for short. The first phase of the RI will consist of collecting site data necessary to understand the extent of contamination, which will then be used to perform risk assessments for the second phase of the RI.

An overview map of Edwards identifies environmental cleanup areas known as Operable Units or OUs. Groundwater contaminant plumes are depicted in blue and the black dashed line represents the base boundary. Close-up views of each OU are attached to the back of this fact sheet.
Edwards, a field crew sets up to collect groundwater samples as part of an expanded Site Inspection for PFOS/PFOA contamination.

The Air Force installed six new wells to further delineate a carbon tetrachloride plume. Results were presented in a draft report submitted to the regulatory agencies in May that anticipated to start in December/January.

In February, the Air Force collected vapor intrusion samples from five Air Force Research Laboratory, Detachment 7, Arroyos buildings. Results were presented in a draft report submitted to the regulatory agencies in August. The sampling results will determine whether continued VI sampling is necessary in the AFRL Arroyos Record of Decision.

The Site 29 Explanation of Significant Differences was signed into effect and is being prepared for public distribution. The ESD documents minor changes that were made to the 2009 Record of Decision cleanup remedy for the site.

PFOS/PFOA

A draft report was submitted to regulatory agencies in May that summarized the results of a phased groundwater sampling effort conducted as part of an expanded Site Inspection. The expanded SI concentrated on three areas to determine whether there were any complete pathways to drinking water receptors. In addition to PFOS/PFOA, the Air Force also sampled for perfluorobutane sulfonic acid, or PFBS. The Air Force is currently working to resolve regulatory comments on the draft document and a final version is expected to be issued in December/January.

The Air Force also plans to conduct stakeholder involvement in the Relative Risk Site Evaluation or RRSE process. The RRSE is a standard method by which Department of Defense components evaluate the relative risk posed by a site in relation to other sites. Regulatory and public input is part of the RRSE process, which means Edwards environmental restoration officials plan to hold a 30-day comment period that is anticipated to start in December/January. The start of the comment period will be announced in local newspapers and on the Edwards public website and RAB Facebook page. Currently, officials are drafting an RRSE package that will be uploaded to the Edwards Administrative Record website during the public comment period.

AFRL Arroyos Dispute

The Senior Executive Committee met in October and early November to discuss dispute issues that the Air Force and regulatory agencies agreed to elevate. Each agency submitted individual position statements to facilitate the SEC discussion.

In February, the Air Force collected vapor intrusion samples from five Air Force Research Laboratory, Detachment 7, Arroyos buildings. Results were presented in a draft report submitted to the regulatory agencies in August. The sampling results will determine whether continued VI sampling is necessary in the AFRL Arroyos Record of Decision.

OU1/8 Main Base

The Air Force continues to host Technical Working Group teleconferences to resolve issues on the Operable Unit 1/8 Feasibility Study Addendum with regulatory agencies. Issues include topics such as vapor intrusion evaluation of buildings, groundwater modeling and plume stability.

Indoor air sampling of Building 1807 moved to a semiannual schedule starting in November 2019. Results from the November 2019 and May 2020 sampling events confirmed that indoor air trichloroethene levels remain below all action levels with the new heating, ventilation and air conditioning system operating continuously. A revised draft report documenting vapor intrusion investigations efforts conducted at Building 1807 from November 2009 through July 2019 was submitted to the regulatory agencies for review in August.

OU2 South Base

Groundwater treatment systems continue to operate at Sites 5, 14, 76 and 86, with annual reports submitted to the regulators and published in the Edwards Administrative Record. In October, the Air Force installed six new wells to further delineate the carbon tetrachloride plume at Site 5.

The RRSE is a standard method by which the Air Force is working to resolve issues related to the Risk Site Evaluation or RRSE process. The ESD documents minor changes that were made to the 2009 Record of Decision cleanup remedy for the site.

Formed from the target debris Sites 81 and 102 were covered with crushed concrete and native seed was spread in specific locations to help revegetate the area. The sites were covered to eliminate a pathway for graveling birds to ingest skeet and lead-shot debris.

OU4/9 AFRL

A revised draft final version of the South AFRL ESD was submitted to the regulators in May. The Air Force submitted a second addendum to the Final South AFRL Remedial Action Work Plan Version 2 for regulatory review in early November. The second addendum will address the installation of two new groundwater monitoring wells and vapor intrusion sampling at three South AFRL buildings. Groundwater monitoring continues throughout AFRL and Land Use Controls are in place at South AFRL and Edwards.
AFRL Soil and Debris Sites. Annual status reports on these activities can be found in the Edwards Administrative Record.

**OU5/10 North Base**
The Site 285 groundwater extraction and treatment system, an interim system that addresses perchlorate in groundwater, is expected to be evaluated for optimization thanks to the basewide contract awarded in September. A draft vapor intrusion work plan for OU5/10 is expected to be submitted to the regulatory agencies for review in November. A revised draft Feasibility Study is now scheduled to be submitted in December 2022.

**OU6 NASA Armstrong**
The annual OU6 groundwater monitoring event is expected to occur this fall, with in situ chemical oxidation treatment to take place at Site N3 in March 2021. The ISCO treatment will add chemical components to the groundwater to help break down contaminants. The Third Five-Year Review of OU6 is due in late 2021, which will determine whether the 2006 cleanup remedy in place continues to be protective of human health and the environment.

**OU7 Basewide Miscellaneous**
A draft Proposed Plan for Sites 267, 269, 272, 280, 292, 294 and 339 is expected to be submitted to the regulatory agencies for review in March 2021.

**OU7 Site 3**
The installation of the last portion of the Site 3 landfill cap/cover will begin as soon as an on-base soil source is identified and approved.

**OU7 Chemical Warfare Materiel Site 442**
Annual status reports on Site 442 continue to be submitted to the regulatory agencies and published in the Edwards Administrative Record.

**Multisite Five-Year Review Report**
The document reviewed cleanup remedies in place at Sites 3, 5, 14, 76, 86 and 442. As reported at the November 2019 RAB meeting, the U.S. EPA concurred with protectiveness in the short term and the Air Force will address FYR recommendations to ensure protectiveness in the long term. Because of funding/contract restraints, the FYR was not published until mid-October. The document is available on the base public website and Administrative Record website.

**Site 25**
The Air Force is working on several fieldwork efforts to collect data that will be incorporated into a revised Feasibility Study for Site 25. In November/December, base officials expect to restart a soil vapor extraction treatability study in the Site 25 source area, with the addition of air sparging. The treatability study is expected to provide useful information for future remedial action design at Site 25.

**MMRP**
In September, two Military Munitions Response Program documents were finalized: Supplemental Comprehensive Site Evaluation, Phase II for AL505-3 and AL505-5; and Remedial Investigation/Feasibility Study Report for AL501A, AL504, AL505-2 and AL505-4. The recently awarded basewide contract includes tasks to develop the MMRP Proposed Plan and a letter of findings for off-base property owners that summarizes the Air Force’s investigative efforts.

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**MORE INFORMATION AVAILABLE**
The Air Force invites the public to gain a more complete understanding of the base cleanup areas and activities that have been conducted. Documents related to environmental restoration investigation and mitigation at Edwards AFB are in the Administrative Record. To view the full record, you may contact Gary Hatch, 412th Test Wing Public Affairs, by:

- **Mail**: 412 TW/PA, 305 E. Popson Ave., Edwards AFB, CA 93524
- **Phone**: (661) 277-8707  •  **E-mail**: 412tw.pae@us.af.mil

Administrative Record documents also may be found online at [https://ar.afcec-cloud.af.mil](https://ar.afcec-cloud.af.mil). On the website, select "Edwards AFB, CA" from the Installation List and use the Search function to find cleanup documents related to the base. To view a subset of decision documents, you may also visit one of the Information Repository locations listed below.

**Information Repositories:**

- Edwards AFB Library
  5 W. Yeager Blvd.
  Edwards AFB, CA
  (661) 275-2665
- Kern County Public Library
  3611 Rosamond Blvd.
  Rosamond, CA
  (661) 256-3236
- Los Angeles County Public Library
  601 W. Lancaster Blvd.
  Lancaster, CA
  (661) 948-5029