

FFID: CA957002455100
Size: 2,777 acres
Mission: Trained tanker crews and serviced KC-135 stratotanker
HRS Score: 27.93; placed on NPL in July 1987
IAG Status: IAG signed in 1989
Contaminants: Spent solvents, PCBs, petroleum/oil/lubricants, pesticides, cyanide, and cadmium
Media Affected: Groundwater and soil
Funding to Date: \$129.7 million
Estimated Cost to Completion (Completion Year): \$114.2 million (FY2038)
Final Remedy in Place or Response Complete Date for BRAC Sites: FY2003
Five-Year Review Status: Completed/Planned



Atwater, California

Restoration Background

In July 1991, the BRAC Commission recommended closure of Castle Air Force Base. The installation was closed on September 30, 1995. A 5-year review was completed for the installation.

Landfills, underground storage tanks (USTs), discharge areas, chemical disposal pits, fire training areas, fuel spill areas, and polychlorinated biphenyl (PCB) spill areas were identified at the installation. Interim actions have included removing contaminated soil from the PCB spill areas, installing potable water supply wells with filtration systems to remove trichloroethene from groundwater, and removing USTs. Sites were grouped into three operable units (OUs).

The interim Record of Decision (ROD) for OU1 was signed in FY91, and the OU2 ROD was signed in 1994. In FY93, additional areas of concern were identified and incorporated into the source control OU (SCOU). The installation also completed remedial design (RD) activities at OU1 and began a remedial action (RA), abandoning inactive production wells and removing abandoned USTs. An environmental baseline survey was completed.

In FY95, the installation began operating soil vapor extraction (SVE) systems at two fuel spill areas. In FY96, Part I of the remedial investigation and feasibility study (RI/FS) report was completed. The installation removed 69 USTs and 16 oil-water separators and completed construction of a pump-and-treat system at OU2.

In FY97, the installation constructed two pump-and-treat systems (OU1 Phase 2 and Castle Vista). The base cleanup team completed an RD/RA landfill work plan and a comprehensive basewide Part I groundwater ROD incorporating OU1, OU2, and Castle Vista.

In FY98, the storm drain cleanup was completed and the sanitary sewer repair designed. Castle Vista Landfill A (CV-A), CV-B, and Landfill 2 were excavated and consolidated into Landfill 4. PCB-9 and ETC-10 removal actions were completed. RCRA compliance actions included demolition of the demineralized water plant and the wastewater treatment plan. The installation's base cleanup plan was updated.

In FY99, one SVE system and two bioventing systems were installed for remediation of petroleum/oil/lubricant intrinsic remediation sites. Two additional UST site SVE systems and three UST site bioventing systems were installed. The installation consolidated Landfills 1 and 3 into Landfills 4 and 5. The UST site closure project excavated and disposed of petroleum-contaminated soil at five UST and oil-water separator sites. Closure reports were approved for SCOU sites LF-A and LF-2. An institutional control layering strategy worksheet was completed for Parcel A.

The installation has a Restoration Advisory Board, which meets every quarter.

FY00 Restoration Progress

The final draft of SCOU ROD I is awaiting regulatory agreement. A final draft memorandum of agreement with the City of Atwater is awaiting signature. Construction of Phase III of the groundwater treatment system was completed. Long-term operation (LTO) of four groundwater treatment systems, eight SCOU intrinsic remediation sites, one SCOU petroleum-only SVE site, two SCOU petroleum-only bioventing sites, two UST SVE sites, and three UST bioventing sites continued. Repairs to the sanitary

sewer and excavation at eight SCOU Installation Restoration Program (IRP) sites were completed. The installation developed a tool to geographically display detailed hydrogeologic, analytical site and system performance data on an interactive map to help optimize groundwater treatment systems. The installation also received approval on closure reports for six SCOU sites.

Plan of Action

- Complete SCOU ROD I in FY01 and SCOU ROD II and the SCOU II proposed plan in FY02
- Continue LTO of four groundwater treatment systems, eight SCOU intrinsic remediation sites, one SCOU petroleum-only SVE site, two SCOU petroleum-only bioventing sites, two UST SVE sites, and three UST bioventing sites in FY01-FY02
- Construct five SVE systems in FY01 and four SVE systems for 14 chlorinated volatile organic compound-contaminated SCOU sites in FY02
- Initiate RAs at eight petroleum-only SCOU sites in FY02
- Consolidate groundwater RI/FS and SCOU RI/FS into a basewide RI/FS by FY02
- Initiate RAs at all remaining SCOU IRP and petroleum-only sites by end of FY02
- Complete 5-year review as planned

BRAC SITES ACHIEVING RIP OR RC PER FISCAL YEAR

