



SAN PEDRO FACILITY

SAN PEDRO, CALIFORNIA

FACT SHEET No. 6



September 1998

OVERVIEW

The San Pedro Facility is composed of two parts: Defense Fuel Support Point (DFSP) San Pedro and three Long Beach Naval Complex (LBNC) Navy housing areas, which include Palos Verdes, San Pedro, and Taper Avenue.

DFSP San Pedro has been operational since February 1943. Its primary mission is to receive, store, and distribute fuels for ships, aircraft, and other vehicles for military bases in California, Nevada, and Arizona. Sites 3A, 3B, 4, and 6 are located at DFSP San Pedro.

Upon closure of LBNC, the Palos Verdes, San Pedro, and Taper Avenue housing areas were placed under caretaker status by Southwest Division Naval Facilities Engineering Command (SWDIV) until the properties are leased or transferred. The Palos Verdes housing area includes Sites 1A, 1B, and 2, which make up Operable Unit (OU-1). Site 5 (OU-2) is located adjacent to the San Pedro housing area. Historically, no IR sites have been identified at the Taper Avenue housing area.

INSTALLATION RESTORATION PROGRAM AT THE SAN PEDRO FACILITY

The Installation Restoration (IR) Program was established by the Department of the Navy to comply with the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980 and the Superfund Amendments and Reauthorization Act (SARA) of 1986. The purpose of the IR Program is to identify, investigate, assess, characterize, and clean up or control releases of hazardous substances; and to reduce the risk to human health and the environment from past waste disposal operations and hazardous material spills at military activities in a cost-effective manner. Listed below are the steps of the CERCLA process for the environmental cleanup of the San Pedro Facility.

STEPS OF THE CERCLA PROCESS

The Remedial Action Process is the primary alternative conducted for most IR Program sites. It provides a full and careful progression through the steps of identification, investigation, cleanup, and site closeout. A brief description of the steps that make up the Remedial Action Process is:

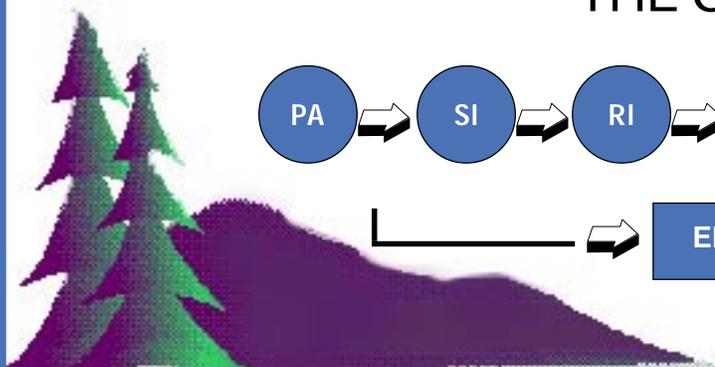
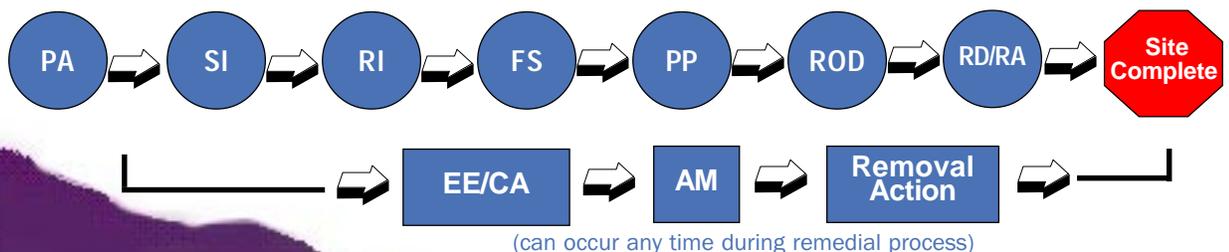
- Preliminary Assessment (PA)**
discover potential hazardous waste release
- Site Inspection (SI)**
verify potential hazardous waste release
- Remedial Investigation (RI)**
conduct site studies
- Feasibility Study (FS)**
develop cleanup solutions
- Proposed Plan (PP)**
propose cleanup solutions
(subject to a 30-day public comment period)
- Record of Decision (ROD)**
select the cleanup solution
- Remedial Design/Remedial Action (RD/RA)**
design and conduct the cleanup solution

In some cases, the Navy and regulatory agencies may elect to conduct site cleanup through the Removal Action Process. Removal actions can be undertaken at any time during the Remedial Action Process. A removal action may be, but not always, the final cleanup solution for a site. The Removal Action Process includes the following steps:

- Engineering Evaluation/Cost Analysis (EE/CA)**
evaluate and propose removal actions
(subject to a 30-day comment period)
- Action Memorandum (AM)**
select the removal action
- Removal Action**
conduct the removal action

The CERCLA process selected for each IR Program site is determined by evaluating the advantages and disadvantages of each process and selecting the process that best protects human health and the environment. The ultimate goal of the IR Program is to complete the cleanup of the sites in accordance with the requirements of CERCLA.

THE CERCLA PROCESS



STATUS OF THE INSTALLATION RESTORATION PROGRAM AT THE SAN PEDRO FACILITY

LBNC HOUSING AREAS

Sites 1A, 1B, and 2 (OU-1)

Ship Disposal Area and Drilling Mud Disposal Area

Status: Preparing Post-Closure Maintenance Plan

OU-1 is located north of DFSP San Pedro and is composed of Sites 1A, 1B, and 2. The site is surrounded by family housing units and recreational facilities for Navy personnel. However, the site is currently vacant.

Sites 1A, 1B, and 2 are located in ravines that were filled with waste materials. The waste materials were reportedly from ships returning from World War II and included waste oils, paints, solvents, scrap metal, cables, gas masks, radium dials, and metal drums. Drilling mud from oil field activities was also reportedly disposed of at Sites 1B and 2 during the 1950s, along with sludge from fuel tank bottoms. All three sites were covered with native on-site soils during construction of the Palos Verdes housing area.

In 1994, the Removal Site Evaluation (RSE) was conducted at OU-1 and found an elevated level of the semivolatile organic compound (SVOC) benzo(a)pyrene in the soil at the near surface level to a depth of 6.5 feet. In addition, the metals arsenic, beryllium, chromium, cobalt, copper, and lead were detected at concentrations above the San Pedro Facility background concentrations.

The streamlined risk evaluation and information contained in the RSE demonstrated that conditions at Sites 1A and 2 posed a potential risk to public health. Therefore, the Navy and regulatory agencies determined that a non-time critical removal action was necessary at OU-1. An EE/CA was prepared in 1996, and the recommended removal action alternative was a soil cover, grading, and landscaping for the impacted area, followed by groundwater monitoring to confirm the effectiveness of the soil cover. An AM was issued in 1996 and documented the decision to proceed with the recommended removal action alternative.

The removal action was completed in April 1997. To date, a total of five rounds of groundwater sampling have been performed at OU-1. No significant organic or inorganic constituents were found in the groundwater samples. The institutional controls (land-use restriction and long-term maintenance) are being addressed in the Post-Closure Maintenance plan. The site is suitable for recreational use.

Sites 5 (OU-2)

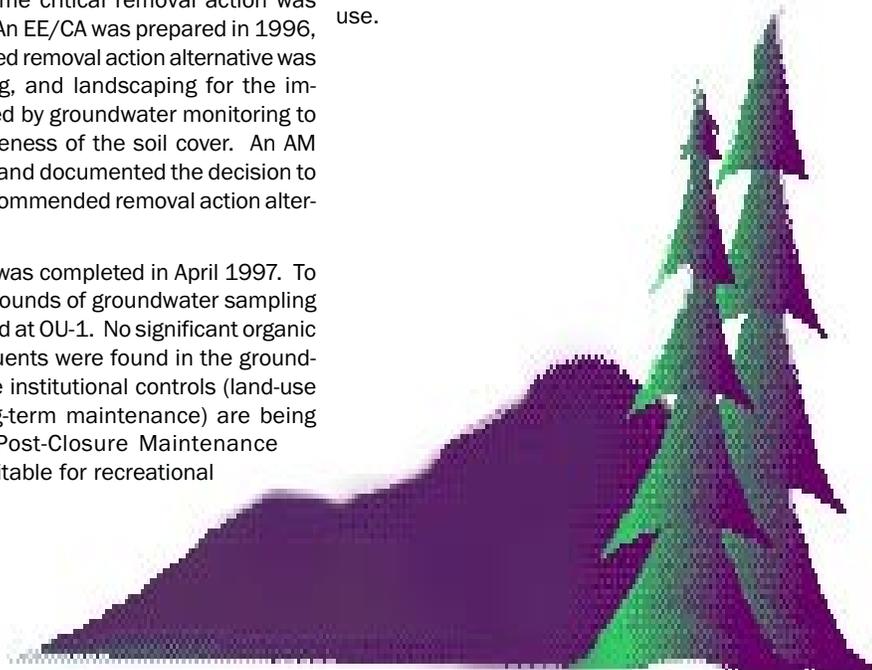
Former Fire Fighters School

Status: Site Complete

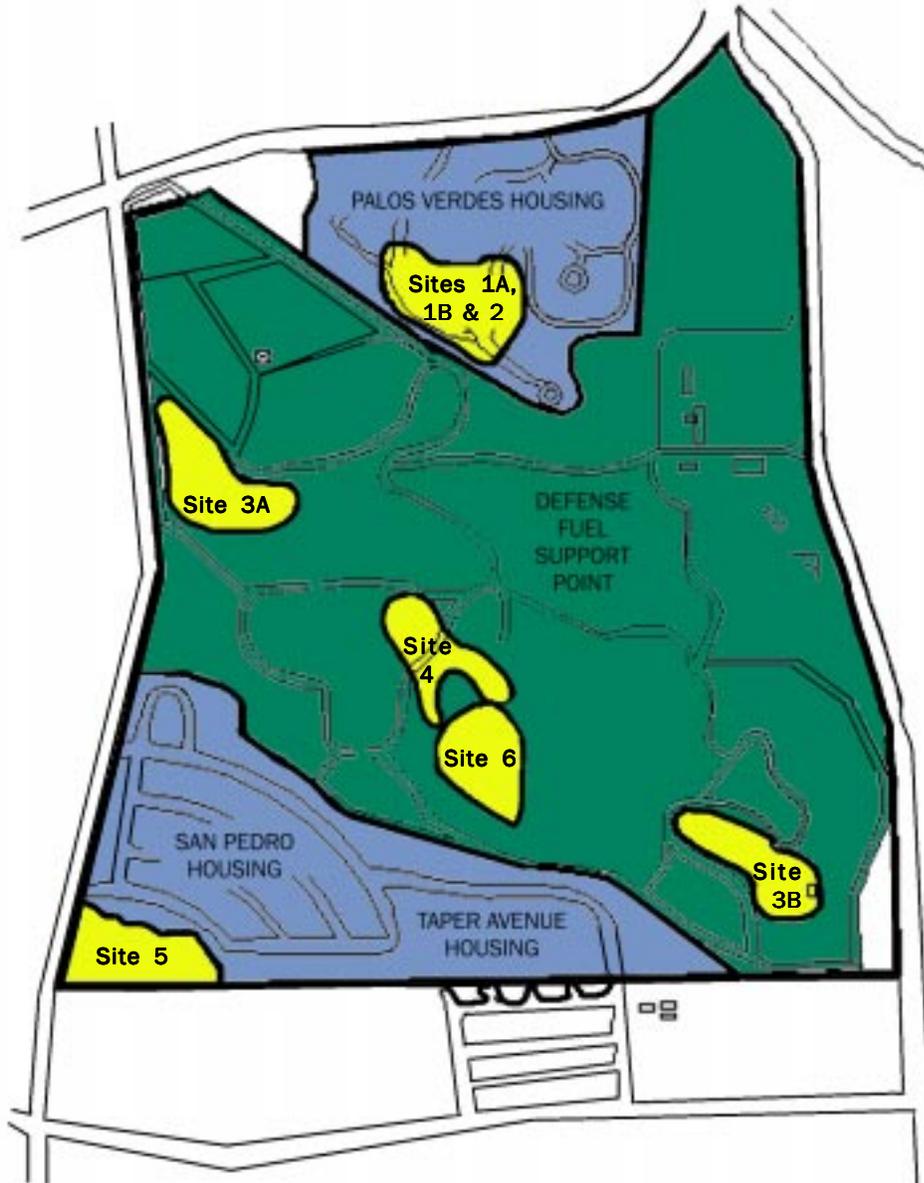
OU-2 is composed of Site 5, the former fire fighters school. OU-2 encompasses a triangular-shaped parcel approximately 400 feet by 1,000 feet and is located directly adjacent to the San Pedro housing area. Little information exists regarding past site operations. Historically, fire fighter training typically included the burning of fuel. Smoke is evident in aerial photographs of the site taken in 1945 and 1947 (SWDIV, 1995).

The SI for OU-2 was completed in 1993; SVOCs were the only identified chemicals of concern (COCs). In 1995, the RSE was completed. The RSE analytical results indicated that the SVOCs benzo(a)pyrene and dibenz(a,h)anthracene exceeded risk based concentrations (RBCs) in the near surface soil. The Navy and regulatory agencies determined that a removal action was appropriate to mitigate potential health threats.

An EE/CA was prepared in 1996, and the recommended removal action alternative was excavation and off-site disposal. The AM was issued in 1996 and documented the decision to proceed with the recommended removal action alternative. Between September 1996 and April 1997, 800 cubic yards of soil were excavated and disposed of off-site. Site closure was obtained from the regulatory agencies in October 1997. The site is suitable for unrestricted use.



The following are descriptions of the sites in the IR Program at the San Pedro Facility including an update on the environmental investigations and the status of the cleanup process for each site.



SAN PEDRO FACILITY INSTALLATION RESTORATION SITES

STATUS OF THE INSTALLATION RESTORATION PROGRAM AT THE SAN PEDRO FACILITY

DFSP SAN PEDRO

Site 3A

Central Ravine

Status: Removal Action Being Evaluated

Site 3A is located in the northwest corner of DFSP San Pedro in a deeply incised west to east ravine that is heavily vegetated.

Disposal activities have taken place in the ravine since 1943. Debris in the ravine include concrete rubble, asphalt, brick, wood, and rebar.

The SI was completed in 1993 and found that waste-fill activities are the potential source of the COCs at Site 3A. The potential COCs identified during the SI included the SVOC benzo(a)pyrene and the metals arsenic, antimony, beryllium, copper, lead, and zinc. An Extended SI will be prepared to provide additional sampling and analysis information that will enable decisions to be made about the urgency and cost of further actions. The potential removal actions that will be evaluated during the EE/CA include:

- Soil - Secure/Monitor; Cap; or Excavate and Dispose
- Groundwater - Monitor; Cap; or Pump and Treat
- Surface Water - Monitor or Collect and Treat

Site 3B

Southeast Ravine

Status: Removal Action Being Evaluated

Site 3B is located near the southeast corner of DFSP San Pedro in a ravine that has been completely filled with waste materials. Debris in the ravine includes concrete, asphalt, brick, wood, and rebar.

In 1979, a fuel release occurred at tank T-20. Approximately 100,000 gallons of diesel fuel flowed into the ravine; an estimated 62,000 gallons were recovered.

The SI was completed in 1993 and found that waste-fill activities and spills are the potential source of the COCs at Site 3B. The potential COCs identified during the SI included the SVOCs benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and dibenz(a,h)anthracene and the metals arsenic and lead. An Extended SI will be prepared to provide additional sampling and analysis information that will enable decisions to be made about the urgency and cost of further actions. The potential removal actions that will be evaluated during the EE/CA include:

- Soil - Secure/Monitor; Cap; or Excavate and Dispose
- Groundwater - Monitor; Cap; or Pump and Treat
- Surface Water - Monitor or Collect and Treat

Site 4

Oil Spill Area

Status: No Further Action

Site 4 covers an area approximately three acres in size. In 1954 approximately 147,000 gallons of bunker fuel overflowed from a tank in this area, and only a small amount of this fuel was recovered. In the early 1960s, between 4,200 and 23,000 gallons of Navy special fuel oil were released again from a tank overflow in this area.

Because Site 4 is a hydrocarbon-contaminated site not subject to CERCLA, DFSP San Pedro performed the remediation. In December 1997, the Regional Water Quality Control Board (RWQCB) provided DFSP San Pedro with the site closure letter for No Further Action (NFA) at Site 4. Site 4 is available for unrestricted use by DFSP San Pedro.

Site 6

South Ravine

Status: Removal Action Being Evaluated

Site 6 is located near the south-central boundary of DFSP San Pedro. The history of disposal in the ravine is unknown. It was first identified as a disposal area in 1990. Concrete, wood, furniture, brush, and vehicle tires are visible on the surface. Most of the debris in the ravine are overgrown with vegetation.

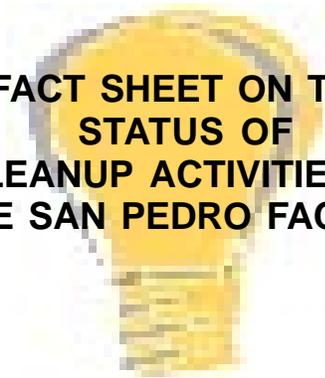
The SI was completed in 1993 and found that fill activities and spills are the potential source of the COCs at Site 6. The potential COCs identified during the SI included the SVOCs benzo(a)pyrene and benzo(a)anthracene and the metal lead. An Extended SI will be prepared to provide additional sampling and analysis information that will enable decisions to be made about the urgency and cost of further actions. The potential removal actions that will be evaluated during the EE/CA include:

- Soil - Secure/Monitor; Cap; or Excavate and Dispose
- Groundwater - Monitor; Cap; or Pump and Treat
- Surface Water - Monitor or Collect and Treat



DEPARTMENT OF THE NAVY

Southwest Division
Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, CA 92132



FACT SHEET ON THE STATUS OF CLEANUP ACTIVITIES AT THE SAN PEDRO FACILITY

If you would like to be included on the San Pedro Facility Mailing List or wish to be removed, please contact Michelle Gallice of CDM Federal Programs Corporation at: (619) 268-3383.

CLEANUP PARTNERS

The California EPA (Cal-EPA) Department of Toxic Substances Control (DTSC) and Regional Water Quality Control Board (RWQCB), Los Angeles Region are the lead regulatory agencies for the environmental cleanup activities at the San Pedro Facility. The United States Environmental Protection Agency (U.S. EPA) provides federal oversight for IR Program activities. The Department of the Navy is the lead federal agency for the IR Program activities at the San Pedro Facility. The following regulatory partners are working together with the Navy and DFSP San Pedro:

Hugh Marley, Remedial Project Manager
RWQCB, Los Angeles Region
(213) 266-7669

Alvaro Gutierrez, Remedial Project Manager
Cal-EPA, DTSC
(714) 484-5417

Martin Hausladen, Remedial Project Manager
U.S. EPA, Region IX
(415) 744-2388

The regulatory partners can be contacted at the numbers listed above for any questions or concerns regarding the cleanup process at the San Pedro Facility.

RESTORATION ADVISORY BOARD (RAB)

The RAB for the San Pedro Facility was established to provide a forum for the exchange of information and partnership among the community, Navy, DFSP San Pedro, U.S. EPA, and state regulatory agencies. RAB members, selected from the local community, are asked to review and comment on technical documents relating to the ongoing environmental studies and cleanup activities at the San Pedro Facility. The RAB meets quarterly (Jan., April, etc.) on the evening of the fourth Wednesday at 7 p.m. Meetings are open to the public and are advertised in local newspapers and on the Navy web site provided below.

<http://www.efdswest.navfac.navy.mil/DEP/ENV/default.htm>

An Information Repository is provided for the community to review current documents related to the environmental cleanup activities at the San Pedro Facility. Additional documents are located at the Administrative Record. The Information Repository and Administrative Record are located at:

Information Repository

San Pedro Public Library
931 South Gaffey
San Pedro, CA 90731
(310) 548-7779

Administrative Record

SWDIV NAVFACENGCOM
1220 Pacific Highway
San Diego, CA 92132
(619) 532-1144

If you would like more information on the San Pedro Facility IR Program or the San Pedro Facility Restoration Advisory Board, please contact:

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