Reaching Out to the HPNS Community

A detailed Community Involvement Plan, or CIP, was written in 2011 and updated in 2013 to help the Navy work more closely with the community. In 2016, the Navy will prepare another update to the CIP, with review and final copies available to the public at the San Francisco Main Public Library, the HPNS Site Trailer, and online on the Navy’s website. The CIP presents a description of the types of activities and outreach that the Navy will use to involve community members during the cleanup process at HPNS. For more information:

- Attend a Community Meeting or Bus Tour
The Navy presents updates at scheduled community meetings to inform people about cleanup at HPNS. Meetings are held throughout the year, and bus tours are offered each summer. Check the Navy’s HPNS website for the annual calendar of meetings, bus tours, and other events held in the community.

- Call Our Local Information Line
The HPNS Info Line at (415) 295-4742 provides up-to-date information about outreach activities planned for the shipyard, including meeting locations and times, and events in which the Navy will participate. A message can also be left with any questions or comments on the HPNS Cleanup Program.

- Join Our Email and Mailing Lists
If you would like to join the HPNS e-mail and/or USPS mailing list(s), please send your information to the Navy at info@sfhpns.com. This HPNS email address can also be used to communicate with the Navy, allowing community members to send questions or comments on cleanup activities, offer suggestions for a topic at an upcoming meeting, or sign up for a bus tour.

- Visit Our Website
Program information is available on the HPNS pages of the Navy’s website. This resource may be found online at http://www.bracpmo.navy.mil. Once on the site, click on “BRAC Bases”, click on “California”, then select “Former Naval Shipyard Hunters Point”.

Cleaning and Redevelopment

The Navy is committed to cleaning up the property that makes up HPNS and looks forward to completing the program and transferring the parcels for redevelopment.

Program Successes to Date

- Transferred four parcels to the City of San Francisco: Parcel A (2004); Parcels D-2, UC-1 and UC-2 (2015)
- 10 Records of Decision (RODs) signed
- Removed 28 miles of sewer/storm drain lines, during which only 0.2% of piping required disposal as radioactive waste
- Removed more than 21,000 truckloads of soil in support of sanitary sewer and storm drain line removal; only 5% of soil required disposal as radioactive waste
- Removed approximately 10,000 truckloads (to date) of soil and sediment from Parcel E-2
- Treated 8.6 million gallons of groundwater
- Closed 52 Petroleum Sites

The Navy’s goal is to clean up HPNS so the area can be redeveloped for San Franciscans to live, work, and play there.

The Redevelopment Plan can be found at http://sfocii.org.

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HPNS info

Hunters Point Naval Shipyard (HPNS):
A History of Maritime Service

The Hunters Point Naval Shipyard, or HPNS, is located on 934 acres of waterfront in the southeast corner of San Francisco, California. It was founded as a commercial dry dock in 1869 and owned privately by Union Iron Works and later Bethlehem Shipbuilding Company. The shipyard was purchased by the United States Navy in 1939, beginning its important role in service to our country. During World War II, the shipyard provided needed deep-water facilities between San Diego and Bremerton, Washington, where the Navy could conduct ship repair and maintenance of Naval vessels.

In addition to these activities, a portion of HPNS was used by the Naval Radiological Defense Laboratory (NRDL) from 1948 to 1969. NRDL decontaminated ships exposed to atomic weapons testing and also conducted research on the effects of radiation. The shipyard was an active Navy base until 1974. In 1976, much of the property was leased to a commercial ship repair company, Triple A Machine Shop, which repaired commercial and Naval vessels on the site until 1986 when the Navy reclaimed the shipyard.

Evaluating the Environment

In 1988, the former Shipyard entered the Base Realignment and Closure (BRAC) Program, a federal program created to oversee the cleanup and transfer of military installations to public or private entities for redevelopment. In 1989, the United States Environmental Protection Agency (USEPA) evaluated HPNS and placed it on the National Priorities List in response to concerns about the effects of past hazardous wastes created by historical shipyard activities by both the Navy and private companies. The Navy is completing its extensive investigative of contaminated areas of the base and cleaning up the land and groundwater where contamination is found. The Navy’s cleanup program is tailored to meet the City of San Francisco’s current Redevelopment Plan. The Redevelopment Plan can be found at http://sfocii.org.

Quick Community Resources

Navy HPNS Email: info@sfhpns.com
Navy HPNS Cleanup Info Line: (415) 295-4742
Navy Website: www.bracpmo.navy.mil
The Navy is investigating hazardous wastes at HPNS under three cleanup programs. Base Cleanup Program

The Base Cleanup Program was created by the Department of Defense in 1988 to identify, evaluate, and cleanup contamination at US Navy and Marine Corps bases. The Base Cleanup Program meets the requirements of CERCLA. The chemicals regulated under CERCLA include things like chemicals used to manufacture solvents, pesticides, and metals.

Petroleum Program

The Petroleum Program also referred to as the TPH Program, focuses on the cleanup of fuels left over from historical activities and uses. Former fueling stations, distribution lines, and maintenance areas that have leaked fuels, including diesel, gasoline, and motor oil into the soil and groundwater at HPNS. The Water Board oversees this portion of the cleanup.

Radiological Program

The Radiological Program focuses on identifying and cleaning up specific items that are radioactive, like glow-in-the-dark buttons and dials, as well as buildings, sewers, storm drain lines, and buildings that were used by the Naval Radiological Defense Laboratory (NRDL) for radiological research that could have caused contamination from their activities.

For additional information on these topics or the BRAC cleanup program at HPNS, visit http://www.bracpmo.navy.mil.

The Navy is investigating hazardous wastes at HPNS.

### HPNS Parcel Background and Cleanup Status

There are currently nine parcels that the Navy is cleaning up at HPNS. When cleanup is completed, the property will be ready for redevelopment.

When HPNS was assigned to the BRAC Program, it was decided that the best way to manage the cleanup of the 934 acres would be to break it up into smaller areas, or parcels. HPNS is currently made up of nine parcels: Parcels B-1, B-2, C, D-1, E, E-2, F, G, and UC-3. Parcel A was cleaned up by the Navy and transferred to the San Francisco Redevelopment Agency (SFRA) in December 2004.

### Common Remediation Technologies Used at HPNS

**Durable cover** is used at sites to contain the contaminants to reduce or minimize releases. In situ chemical reduction involves the placement of a chemical on the ground surface to degrade toxic organic compounds, resulting in less toxic or nontoxic compounds. Natural attenuation relies on natural processes to clean up or reduce pollution in soil and groundwater. Scientists monitor or test these conditions to make sure natural attenuation is working.

**Soil Vapor Extraction (SVE)** involves applying a vacuum to the soil to create a steady controlled flow of air to remove volatile and some semivolatile organic contaminants.

**Bioremediation** enhances microorganisms in the ground to degrade/breakdown contaminants in soil and groundwater.

**Water Board**
The San Francisco Bay Regional Water Quality Control Board (Water Board) is responsible for making sure that the waters of the Bay Area are clean and that laws and regulations are followed. The Water Board oversees cleanup activities that affect water and the Navy’s Petroleum Program.

### Coordination at HPNS

The Navy’s BRAC Program manages the cleanup program at HPNS. The Navy works closely with USEPA, SFRA, Water Board, other agencies, and the City of San Francisco. Together, they ensure that HPNS will be safe for planned redevelopment activities.

### Parcels at HPNS

**Parcels D-2, UC-1, and UC-2** were transferred to the Office of Community Investment and Infrastructure, Successor Agency to the San Francisco Redevelopment Agency in 2015.

**Parcels B-1 and B-2**

Parcels B-1, B-2, and IR Site 07/18 (a subsite within Parcel B) were used to provide support and services for the repair and maintenance of submarines and ships.

**Groundwater**

Bioremediation complete; groundwater monitoring ongoing

Soil/sediment: Excavation ongoing; durable cover remedy upcoming

**Next steps:** The Navy is completing cleanup actions at Parcel D-1 and anticipates transferring the parcel to the City of San Francisco in 2017.

**Parcel E**

**Soil** was used for ship repair and maintenance, as well as radiological research.

**Groundwater**

Bioremediation complete; groundwater monitoring ongoing

Soil/sediment: Excavation ongoing; durable cover remedy upcoming

**Next steps:** The Navy will begin the remedial design for cleanup of the parcel in 2016. The Navy anticipates all of the cleanup will be complete and ready to transfer to the City of San Francisco by 2021.

**Parcel E-2**

**Soil** is the site of the HPNS landfill.

**Groundwater**

One underground barrier complete; construction on the second underground barrier begins in 2016.

**Soil**: Mitigation ongoing

**Soil and sediment:** Excavation ongoing; durable cover remedy upcoming

**Next steps:** The Navy started implementing the remedy at Parcel E-2 in 2015. The Navy anticipates the transfer of Parcel E-2 to the City of San Francisco in 2019.

**Parcel F**

**Groundwater**

HPNS: Bunker 2016

Soil vapor extraction (SVE) ongoing

**Next steps:** The Navy plans to complete the soil vapor extraction (SVE) for Parcel F as well as enhance the vapor extraction (SVE) at Parcel E-2 in 2016. The Navy anticipates the transfer of Parcel F to City of San Francisco in 2021.

**Parcel G**

**Soil** was used for ship repair and maintenance, as well as radiological research.

**Groundwater**

Bioremediation complete; groundwater monitoring ongoing

Soil: Excavation and containment complete

Soil/sediment: Cleanup solution.

**Next steps:** Environmental cleanup is complete. The Navy plans to transfer Parcel G to the City of San Francisco in 2016-2017.

**Parcel UC-3**

**Soil and sediment:** Cleanup solution.

**Next steps:** The Navy will begin the fieldwork associated with the remedial design for Parcel UC-3 in 2016. The Navy anticipates the transfer of Parcel UC-3 to City of San Francisco in 2017.

### Contaminants Found at HPNS

The following hazardous wastes, or contaminants, relating to historical use at HPNS have been identified and are being investigated under the cleanup programs.

**FAPs:** Polycyclic aromatic hydrocarbons are a group of compounds created when oil, gasoline, garbage, wood or coal are burned. They are also present in tar and asphalt. (Present at Parcels C, D-1, and G)

**PAHs:** Includes elements such as copper, mercury, lead, manganese, and nickel. Metals are both naturally-occurring and related to shipyard activities. Although not metals, asbestos and arsenic are also naturally occurring. (Present at Parcels B-1, B-2, C, D-1, E, E-2, F, G, and UC-3)

**PCBs:** Prior to banning in 1979, PCBs, or polychlorinated biphenyls, were commonly used to cool electrical equipment and lubricants. (Present at Parcels B-1, B-2, C, E-2, and F)

**Metals:** Includes elements such as copper, mercury, lead, manganese, and nickel. Metals are both naturally-occurring and related to shipyard activities. Although not metals, asbestos and arsenic are also naturally occurring. (Present at Parcels B-1, B-2, C, D-1, E, E-2, F, G, and UC-3)

**Petroleum Products:** Total petroleum hydrocarbons are a mixture of chemicals that come from crude oil. (Present at Parcels B-2, C, E-2, and UC-3)

**Sediment:** Volatile organic compounds are chemicals that easily evaporate into the air, for example. paint thinner. (Present at Parcels B-1, B-2, C, D-1, E, E-2, and G)

For additional information on these topics or the BRAC cleanup program at HPNS, visit http://www.bracpmo.navy.mil.
# FINDINGS OF SUITABILITY TO TRANSFER

## Parcels D2 and UC-1

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