

2023

ANNUAL
UPDATE OF
CLEANUP
ACHIEVEMENTS

HPNS info

Hunters Point Naval Shipyard *Preparing for Tomorrow*

Community Resources

HPNS Email: info@sfhpnns.com

HPNS Information Line: (415) 295-4742

Navy HPNS Home Page:

www.bracpmo.navy.mil/hpnns

Navy HPNS Radiological Program Web Page:

www.bracpmo.navy.mil/hpnsrc

Parcel C Historic District

Hunters Point Naval Shipyard (HPNS):

A History of Maritime Service

The Hunters Point Naval Shipyard (HPNS) is located on the 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 Department of the Navy (Navy) bought the shipyard in 1939, beginning its important role in service to the United States. During World War II, the shipyard provided deep-water facilities between San Diego, California, and Bremerton, Washington, where the Navy could repair ships and maintain Naval vessels.

A portion of HPNS was also used by the Naval Radiological Defense Laboratory (NRDL) from 1948 to 1969. NRDL decontaminated ships exposed to atomic weapons testing and researched the effects of radiation. The shipyard was an active Navy Base until 1974. In 1976, Triple A Machine Shop leased much of the property and repaired commercial and Naval vessels on the site until 1986, when the Navy reclaimed it.

Navy Cleanup at HPNS:

Evaluating the Environment

In 1988, HPNS entered the Base Realignment and Closure (BRAC) Program, a federal program that oversees 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. It placed the shipyard on the National Priorities List (NPL) because of hazardous wastes created by both the Navy and private companies. The Navy is completing its extensive investigation of contaminated areas and cleaning up the contaminated land and groundwater. The Navy's cleanup program is in line with the City of San Francisco's current Redevelopment Plan (<http://sfocii.org>).



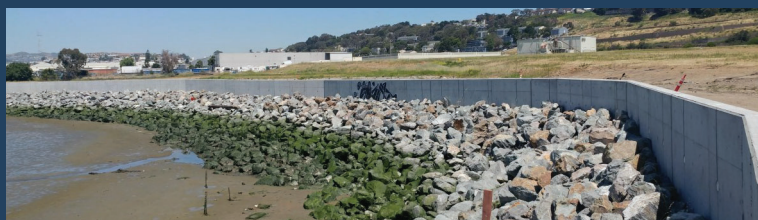
scan to go to
SFOCII website

Navy Plan for Sea Level Rise at HPNS

A primary goal in environmental cleanup at HPNS is to protect public health and the environment over the long term. The Navy's cleanup plans at HPNS accounted for sea level rise because of climate change, thereby protecting cleanup remedies and public health and the environment. Various engineering methods are constructed or used to manage and prepare for sea level rise across HPNS, including the following:

- Installation of below- and above-ground walls to prevent water and soil movement and limit erosion
- Increases in the elevation of HPNS shoreline
- Excavation and removal of contaminated soils
- Treatment of contaminated groundwater
- Long-term monitoring and maintenance to ensure that treatment technologies remain effective

The Navy is required under law to review performance of the cleanup actions and site conditions every 5 years, ensuring that remedies continue to protect public health and the environment. These Five-Year Reviews will include evaluation of the potential effects of sea level rise (including groundwater elevation changes) at current and future cleanup sites at HPNS. In addition, the Navy is required under law to inspect the site and maintain protectiveness of the cleanup remedy, indefinitely.



A concrete sea wall protects the shoreline at Parcel E-2

The Laws and Agencies Involved in HPNS Cleanup

CERCLA and NPL

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), also known as Superfund, was created by Congress in 1980, to create a program to identify, investigate, and clean up hazardous wastes. The NPL was developed under CERCLA to guide USEPA in determining which sites need more investigation. The Navy's environmental cleanup at HPNS follows CERCLA requirements.

USEPA

USEPA is the lead regulatory agency and provides federal oversight for the environmental cleanup at HPNS.

DTSC

The California Department of Toxic Substances Control (DTSC) is the lead state agency that oversees the cleanup of hazardous wastes and ensures that California laws and regulations are followed.

Water Board

The San Francisco Bay Regional Water Quality Control Board (SF Bay Water Board) protects the groundwater and surface waters of the Bay Area. It oversees cleanup activities that affect water and the Navy's Petroleum Program.

Coordination at HPNS

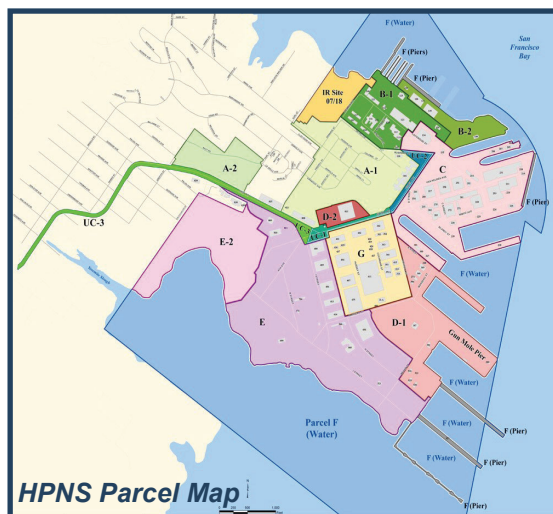
The Navy's BRAC Program manages the cleanup program at HPNS. The Navy works closely with USEPA, DTSC, SF Bay Water Board, other agencies, and the City of San Francisco. Together, they ensure that HPNS will be safe for planned redevelopment activities.

HPNS Parcel Background and Cleanup Status

Cleanup is ongoing at HPNS, with radiological retesting pending at several parcels. The Navy will conduct post-remediation monitoring at HPNS until all property is transferred. Upon completion of all activities and transfer, the property will be ready for redevelopment by the City of San Francisco.

Under the BRAC Program, HPNS includes about 935 acres, which were broken into smaller areas, or parcels, for cleanup purposes. Parcel A was cleaned up by the Navy and transferred to the San Francisco Redevelopment Agency (SFRA) in December 2004. Parcels D-2, UC-1, and UC-2 were transferred to the Office of Community Investment and Infrastructure, Successor Agency to the SFRA, in 2015, however, they are undergoing radiological retesting as explained in further sections.

Read more about the ongoing radiological data evaluation at HPNS on Page 3, or on the Navy's website: www.bracpmo.navy.mil/hpnsrc



Parcels B-1 and B-2

Parcels B-1 and B-2 were used to provide support and services for the repair and maintenance of submarines and ships. Parcels B-1 and B-2 have been further subdivided to assist with property transfer activities: subsites include Installation Restoration (IR)-10 (Parcel B-1) and IR-26 (Parcel B-2).

Groundwater: Groundwater monitoring is ongoing at Parcels B-1 and B-2.

Soil gas: Soil Vapor Extraction (SVE) is complete at IR-10.

Soil/sediment: Excavation and durable cover are complete at Parcels B-1 (except IR-10) and B-2.

Radiological: Scanning and sampling of identified buildings, excavation, or soil borings along the former sanitary sewer and storm drain trenches began in 2022.

Next steps: Cleanup will be completed, including excavations in soil at IR-10 below Building 123 (post-demolition). Post-excavation soil gas survey will be conducted to refine areas requiring institutional controls. Groundwater monitoring of in-situ ("in-place") treatment at IR-26 and radiological retesting at the site will continue.

Parcel C

Portions of Parcel C were used for ship repair and radiological research, a power plant, metalworking, machine shops, and paint shops.

Groundwater: Bioremediation and groundwater monitoring are ongoing.

Soil gas: Parcel-wide soil gas survey and SVE evaluation are pending.

Soil/sediment: Excavations are complete.

Radiological: Scanning and sampling of identified buildings, excavation, or soil borings along the former sanitary sewer and storm drain trenches began in 2022.

Next steps: Activities include groundwater remediation, excavation, parcel-wide soil gas survey, parcel-wide SVE evaluation, and continued radiological retesting.

Parcel D-1

Parcel D-1 was used for ship repair and maintenance, as well as radiological research.

Groundwater: Bioremediation is complete. Groundwater monitoring is ongoing.

Soil/sediment: Excavation is complete; durable cover remedy is complete.

Radiological: Final radiological remedy is under evaluation. Excavation or soil borings along the sanitary sewer and storm drain trenches are planned for the future.

Next steps: A complete radiological remedy evaluation will be conducted.

Parcel E

Parcel E was used for industrial operations and radiological research.

Groundwater: Underground barriers were installed in 2020. Remediation began in 2020 and is ongoing.

Soil gas: Final solution for SVE is under evaluation.

Soil: Excavation, installation of durable cover, in-situ stabilization, and construction of

shoreline protection features began in 2020, and are ongoing.

Radiological: Final remaining sections of stormwater and sanitary sewer lines are being removed. Additional scanning and sampling of identified buildings and excavation or soil borings along former sanitary sewer and storm drain trenches are upcoming.

Next steps: Fieldwork will continue as planned and radiological retesting will be conducted.

Parcel E-2

Parcel E-2 is the site of the HPNS landfill.

Groundwater: Construction of underground barriers is complete.

Soil gas: Evaluation and upgraded system is upcoming.

Soil and sediment: Excavation was completed in 2016. Shoreline revetment was completed in 2018. Construction of final cover began in 2020, and will be completed in 2023.

Radiological: Surface scan of HPNS landfill area is upcoming to ensure it is safe for future reuse as a public park and green space.

Next steps: Construction of site remedy will continue. Evaluation of the Upland Slurry Wall will be conducted. Final radiological surface scan will be conducted after installation of final cover is complete.

Parcel F

Parcel F is the portion of San Francisco Bay (off-shore area) surrounding HPNS. Historical shipyard activities along with soil erosion resulted in contamination of Bay sediment.

Sediment: The remedy selected is pending finalization in a Record of Decision (ROD).

Radiological: Radiological characterization surveys will be conducted of Parcel F structures. No radiological contamination was

found in sediment.

Next steps: The site remedy will be finalized in the ROD and the development of the remedial design will begin.

Parcel G

Parcel G was used for ship repair and maintenance, as well as radiological research.

Groundwater: Bioremediation is complete and groundwater monitoring is ongoing.

Soil: Excavation is complete.

Radiological: Scanning and sampling of identified buildings, excavation, or soil borings along former sanitary sewer and storm drain trenches continues. Fieldwork began in September 2020 and is scheduled through early 2024.

Next Steps: Radiological retesting will be completed. Property will be transferred to the City of San Francisco for redevelopment.

Parcels D-2, UC-1, UC-2, and UC-3

Parcel D-2 is about 5.3 acres and includes one building (Building 813, surrounded by asphalt parking areas) that was historically used as a warehouse, office, supply storehouse, and a Disaster Control Center. Parcels UC-1, UC-2, and UC-3 are former utility corridors that served HPNS.

Soil: Focused excavation is complete. Durable cover is complete.

Radiological: Additional scanning of buildings and excavation or soil borings along former sanitary sewer and storm drain trenches are upcoming.

Next steps: Scanning of buildings will be completed. Radiological retesting will be completed and Parcel UC-3 will be transferred to the City of San Francisco for redevelopment.

Navy Continues Radiological Retesting at HPNS

The Navy works closely with regulatory agencies and the City of San Francisco so that radiological data meet environmental regulations and health guidelines.

Since 2020, the Navy has been collecting radiological retesting data at Parcel G on HPNS. The data include soil samples collected from trench excavations, soil borings, and former building areas.

In November 2021, the Navy began radiologically retesting potentially impacted buildings at Parcel G. Data were collected

from inside the buildings using surface swipes and radiological scans. In addition to Parcel G, retesting is ongoing at Parcels B and C. The Navy will begin retesting additional parcels in 2023.

As an added measure, the Navy conducted a radiological health and safety survey at HPNS in 2021. The survey included surface scans of non-radiologically impacted areas to help evaluate public and environmental safety. The survey found no radiological objects. These areas are not a radiological risk to human health or the environment.

Cleanup Programs on HPNS

The Navy is investigating hazardous wastes at HPNS under three cleanup programs.

Chemical Cleanup

The IR Program was created by the Department of Defense in 1986 to identify, evaluate, and clean up contamination at United States Navy and Marine Corps bases. The IR Program meets the requirements of CERCLA. The contaminants regulated under CERCLA include chemicals used to manufacture solvents, pesticides, and metals.

Petroleum Cleanup

The Petroleum Program, or Total Petroleum Hydrocarbon (TPH) Program, focuses on the cleanup of fuels left over from historical uses. Former fueling stations, distribution lines, and maintenance areas may have leaked fuels (such as TPH-diesel, TPH-gasoline, and TPH-motor oil) into the soil and groundwater at HPNS. The SF Bay Water Board oversees this cleanup.

Radiological Cleanup

The Radiological Program identifies and cleans up specific items that are radioactive, such as glow-in-the-dark buttons and dials. It also includes sewers, storm drain lines, and buildings that were used by NRDL for radiological research that might have been contaminated during historical activities.

For more information on the Navy's environmental cleanup at HPNS, go to the Navy's website at www.bracpmo.navy.mil/hpns

Program Outreach

Each year, the Navy reaches more than 18,000 community members with information on meetings, events, bus tours, surveys, and other communications.

Program highlights include the following:

- Updates to over 2,000 members of the community at more than 100 in-person and virtual meetings and events since 2009.
- Guided tours of cleanup sites on HPNS for over 750 people since 2011.
- An independent radiological expert who answers community member questions at meetings, events, and during dedicated office



Images (clockwise from left): Navy booth at local event, Navy community meeting, HPNS site tour, Community Technical Advisor at local event

How to Learn More and Get Involved in the Navy's Cleanup at HPNS

The Navy and regulatory agencies are working together to clean up HPNS. Please use the following resources to get more information on the Navy's environmental cleanup at HPNS.

Opportunities for Community Involvement at HPNS

Subscribe to HPNS Newsletters

<https://tinyurl.com/hpnsinfo>

Request Program Information

info@sfhpn.com

Leave a Message on the HPNS Info Line

(415) 295-4742

Attend a Navy-sponsored Meeting or Request a Navy Presentation

info@sfhpn.com

Attend a Navy Presentation to an Established Local Organization

[Hunters Point Shipyard Artists](#)

[Hunters Point Shipyard Citizens](#)

[Advisory Committee](#)

[San Francisco Shipyard Homeowners Association](#)

Get Answers to Your Radiological Health and Safety Questions

Community Technical Advisor

Dr. Kathryn Higley

Oregon State University

(541) 737-0675

Kathryn.Higley@oregonstate.edu

Visit an HPNS Information Repository or the Navy's Website

San Francisco Public Library
Gov't Information Center, 5th Floor
100 Larkin Street,
San Francisco, CA 94102

Bayview Linda Brooks-Burton Branch
Library
5075 3rd Street, San Francisco, CA
94124

(informational materials only)

Navy's HPNS Website
www.bracpmo.navy.mil/hpns

Navy and Regulatory Agency Resources



scan to go
to Navy
website



scan to go
to DTSC
website

Department of the Navy
BRAC Program Management Office West
33000 Nixie Way, Bldg. 50, 2nd Deck
San Diego CA 92147
www.bracpmo.nav.mil/hpns

California Department of
Toxic Substances Control
700 Heinz Avenue
Berkeley, CA 94710-2721
<https://dtsc.ca.gov/hw-projects/u-s-department-of-navy-former-hunters-point-naval-shipyard-hpns/>

United States Environmental Protection Agency,
Region 9
75 Hawthorne Street, Mailcode SFD-7-3
San Francisco, CA 94105
<https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0902722>

San Francisco Bay
Regional Water Quality Control Board
1515 Clay Street, Ste. 1400
Oakland, CA 94612
https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/sitecleanupprogram.html



scan to go
to USEPA
website



scan to go to
SF Bay Water
Board website

有关海军在猎人角海军造船厂的清理活动方案的更多信息，
请拨打 (833) 350-6222 并留言。

Para más información sobre el programa de limpieza
de la Marina en Hunters Point Naval Shipyard,
favor de dejar un mensaje en (833) 202-5888.