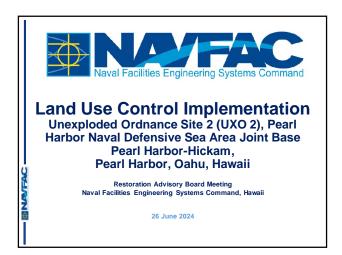
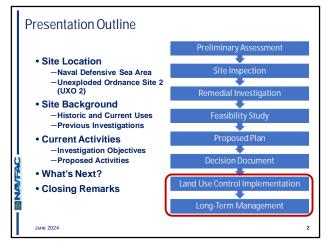
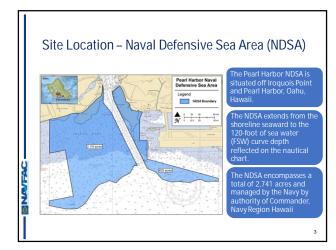
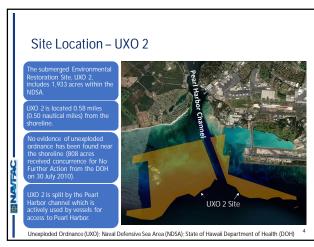
Pearl Harbor-Hickam-Kalaeloa Restoration Advisory Board Meeting June 26, 2024 6 – 8 pm Agenda

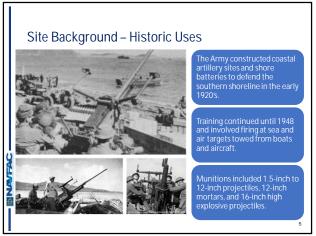
- 1. Welcome and Introductions
- 2. Scheduling of Quarterly Meetings
- 3. Community Involvement and RAB Membership
- 4. Distribution of Draft RAB Charter
- 5. Discussion of Site Visit to UXO 0002, Naval Defense Sea Area
- 6. Presentation: UXO 0002, Naval Defense Sea Area
- 7. Presentation: PFAS Preliminary Assessment and Site Inspection
- 8. Presentation: PFAS Remedial Investigation at Red Hill
- 9. Status of Other Clean-Up Efforts
- 10. Questions and Answers

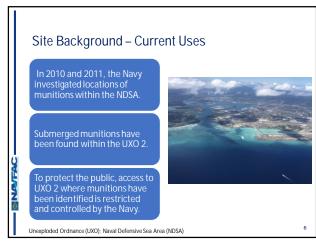


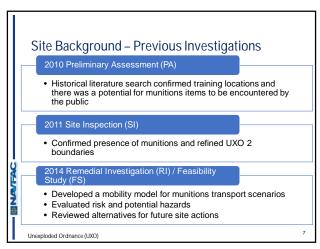


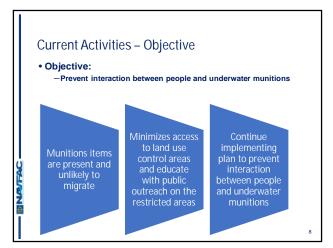




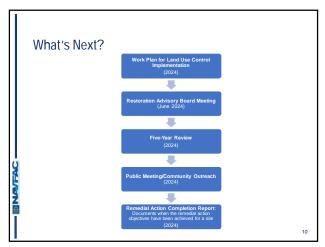


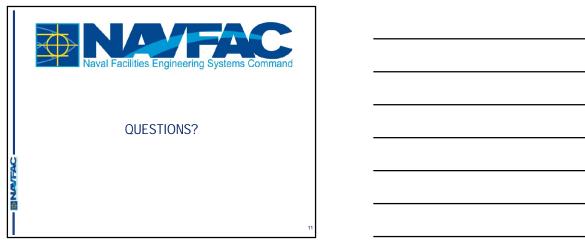












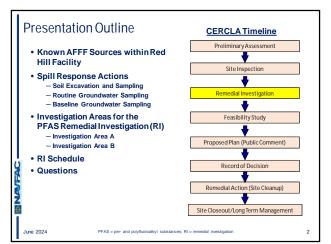


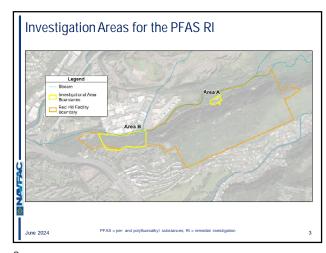
Red Hill Facility
Per- and Polyfluoroalkyl Substances (PFAS)
Remedial Investigation
Joint Base Pearl Harbor-Hickam,
Oʻahu, Hawaiʻi

Restoration Advisory Board Meeting Naval Facilities Engineering Systems Command, Hawai'i

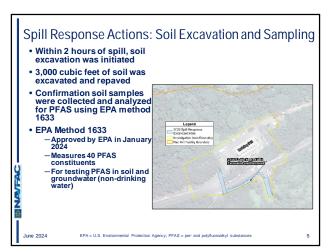
26 June 2024

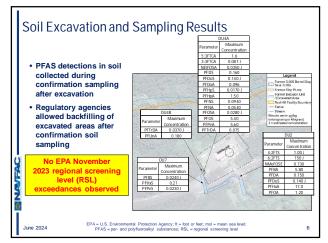
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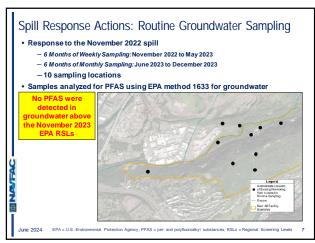


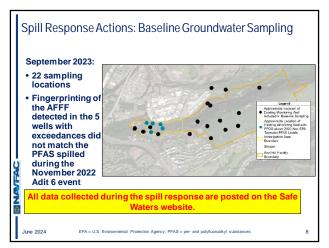


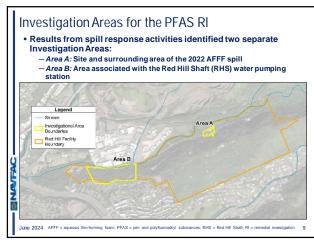


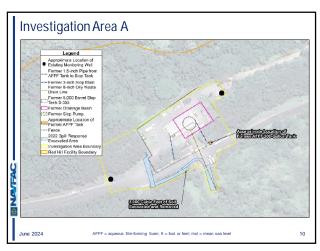


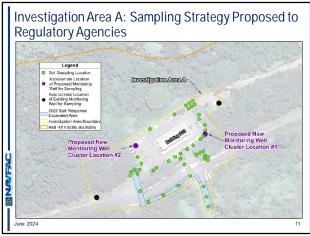


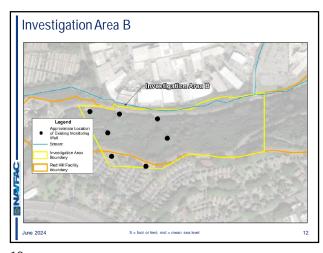


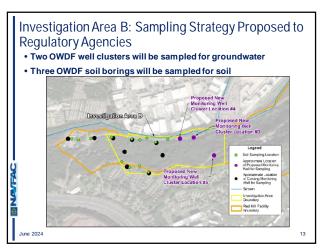




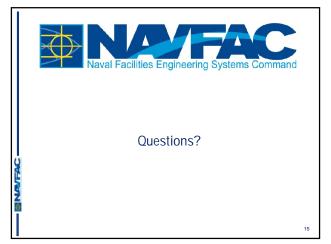












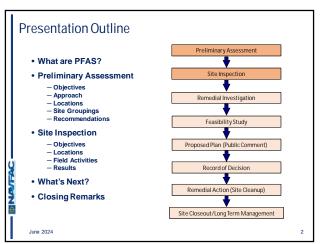


Preliminary Assessments and Site Inspections Per- and Polyfluoroalkyl Substances (PFAS)

Restoration Advisory Board Meeting Naval Facilities Engineering Systems Command, Hawaii

26 June 2024

1



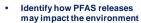
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PFAS = Per- and Poly-fluoroalkyl Substances PFAS are a family of man-made chemicals Useful properties: Resistant to water, grease, and/or stains Firefighting foam (especially fuel fires) Produced and used in many products since the 1950's PFAS use has greatly reduced in the U.S. over the past 10 years PFAS - per- and Poly-fluoroalkyl substances

Preliminary Assessment – Objectives

- Identify and evaluate potential or actual PFAS releases
- Eliminate from further consideration those areas where there is no evidence of a PFAS release or suspected release







Preliminary Assessment – Approach

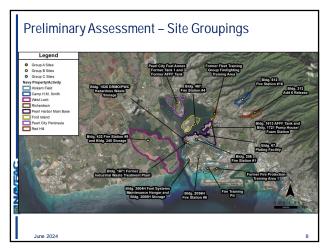
- Reviewed facility records and maps
- · Reviewed previous environmental investigations
- Performed site visits and personnel interviews
- Evaluated each location for potential PFAS use or release
- Identified and grouped potential areas of interest based on likelihood of PFAS impacts to the environment



5

Preliminary Assessment – Areas Evaluated





	Preliminary Assessment – Site Groupings				
	Group A - (10 locations)	Location			
	Former Pearl City Fuel Annex*	Pearl City Peninsula			
ı	Bldg. 206, Fire Station #1	JBPHH main base			
	Bldg 1526, Hazardous Waste Storage	JBPHH main base			
ı	Bldg. 1613 AFFF Tank & Bldg 1721 Pump House/Foam Station	JBPHH main base			
	Former Fleet Training Group Fire Fighting Training Area	Richardson			
ı	Bldg. 467, Fire Station #4	Ford Island			
ı	Bldg. 313 & Adit 6*	Red Hill Bulk Storage Facility			
	Bldg. 3004H Maintenance Hangar & Bldg. 3006H Storage	Hickam Field			
	Fire Training Pit	Hickam Field			
	Former Fire Protection Training Area 1	Hickam Field			
	Group B - (4 locations)	Location			
Ü	Bldg. 432, Fire Station #9 & Bldg. 240 Storage	West Loch Annex			
3	Bldg. 1871/Former Industrial Waste Treatment Plant*	JBPHH main base			
5	Bldg. 2036H, Fire Station #6	Hickam Field			
3	Bldg. 612, Fire Station #16	Camp Smith			
•	Group C - (1 location)	Location			
ï	Bldg. 67, Former Plating Facility*	Pearl Harbor Naval Shipyard and IMF			
* Site-specific PFAS investigation; not included in the installation-wide Site Inspections June 2024 AFFF = aqueous fim-forming foam; Bidg. = Building. JBPHH = Joint Base Pearl Harbor-Hickam; Intermediate Maintenance Facility 9					

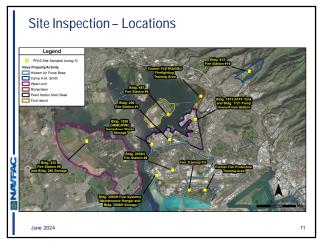
Site Inspection – Objectives

- Based on Preliminary Assessment recommendations evaluate whether PFAS are present in:
 - Surface soil (upper 6 inches)
 - Subsurface soil
 - Groundwate
- 2. Recommend whether any of the potential PFAS sites should be further evaluated in a Remedial Investigation
 - Relative sequencing of work for Remedial Investigations
 - Priority based on potential for exposure and/or impact to environment
 - Regulator and public input

June 2024

PEAS = ner- and polyfluornalkyl substances

10



11

Site Inspection – Field Activities • Samples collected from 11 site locations • Sampling included: - Surface soil - Subsurface soil - Groundwater • PFAS sampling procedures: - EPA guidelines with trained staff and PFAS-free material and equipment - EPA lab methods at certified laboratories Dilling for Moreoring West Installation All The 2024 PFAS - per- and polyfluoroalkyl substances: EPA - Environmental Protection Agency 12

Site Inspection – Results

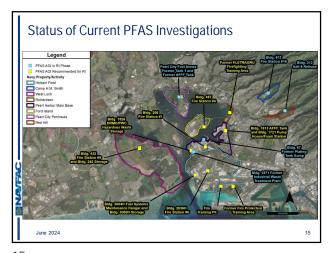
- Objective: to evaluate whether PFAS are present in soil and groundwater
- Sample results compared to EPA screening levels
- Soil or groundwater samples were above EPA screening levels at all 11 site locations
- All 11 site locations recommended for further evaluation in a Remedial Investigation

June 2024

SI = Site Inspection: EPA = Environmental Protection Agencs

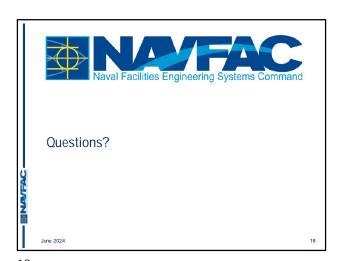
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Site Inspection - Results Bldg. 206, Fire Station #1 JBPHH main base Bldg 1526, Hazardous Waste Storage JBPHH main base Bldg. 1613 AFFF Tank & Bldg 1721 Pump House/Foam Station JBPHH main base Former Fleet Training Group Fire Fighting Training Area Bldg. 467, Fire Station #4 Ford Island Bldg. 3004H Maintenance Hangar & Bldg. 3006H Storage Hickam Field Fire Training Pit Hickam Field Former Fire Protection Training Area 1 Bldg. 2036H, Fire Station #6 Hickam Field Bldg. 432, Fire Station #9 & Bldg. 240 Storage West Loch Annex Bldg. 612, Fire Station #16 Camp Smith* *Groundwater at Camp Smith not sampled for Site Inspection phase due to estimated depth of 600 feet below ground surface.



	What's Next – Remedial Investigations				
	Site Description	Location	Start of PFAS RI		
	Bldg 1871 Former Industrial Waste Treatment* Plant	JBPHH main base	2018		
	Former Pearl City Fuel Annex*	Pearl City Peninsula	2020		
	Bldg. 313 & Adit 6*	Red Hill Bulk Storage Facility	2023		
	Bldg. 612 Fire Station #16	Camp Smith	2023		
	Bldg. 67 Former Plating Facility*	Pearl Harbor Naval Shipyard and IMF	2024		
Q	Bldg. 1613 AFFF Tank & Bldg. 1721 Pump House/Foam Station	JBPHH main base	2024		
S	Former Fleet Training Group Fire Fighting Training Area	Richardson	2024		
2	Bldg. 1526 Hazardous Waste Storage**	JBPHH main base	2024		
Ĩ	Site-specific PFAS investigation; not included in the installation-wide Site inspections "Bldg. 1526 is located in the vicinity of the Former Industrial Waste Treatment Plant and will be included in the same RI June 2024 AFFF = aqueous tim-homing foam, Bldg. = Building; RI = Remedial Investigation; Intermediate Maintenance Facility (IMF) 16				

Site Description	Location	Planne Start o
Bldg. 206 Fire Station #1	JBPHH main base	2025
Bldg. 467 Fire Station #4	Ford Island	2025
Bldg. 432 Fire Station #9 & Bldg 240 Storage	West Loch Annex	2025
Bldg. 2036H Fire Station #6	Hickam Field	2025
Bldg. 3004H Maintenance Hangar & Bldg. 3006H Storage	Hickam Field	2025
Fire Training Pit	Hickam Field	2026
Former Fire Protection Training Area 1	Hickam Field	2026



Project Status Update Table				
Summary of Active Projects and Upcoming Documents/Events				
	Navy Environmental Restoration Program, Pearl Harbor-Hid	kam-Kalaeloa Restoration Advisory	Board	
	June 26, 2024			
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)	
JOINT BASE PEARL H	ARBOR-HICKAM (HICKAM)			
Fire Training Pit and Former Fire Protection Training Area, Hickam	This includes two separate areas at Hickam with similar past activities: a former fire protection training area, and a fire training pit. The former fire protection area was used from 1941 to 1977, the fire training pit is currently used and prior to 2000 the area was not lined. Sampling was conducted as part of an installation-wide SI in 2022 and groundwater and soil were found above screening levels. A Remedial Investigation is planned to evaluate PFAS at the two locations.	Plan to initiate PFAS RI in 2026	Plan to initiate PFAS RI in 2026.	
Vickers Avenue area (ST32)	110 USTs/fuel pipelines in Vickers Avenue area. COPCs include TPH, BTEX, PAHs, lead and methane. Fuel contamination found beneath Onizuka Village housing related to former flight line operations. COPCs include TPH-gasoline and methane.	NFA approved by HDOH Aug 2014 for Vickers Avenue USTs. Soil Vapor Extraction Unit (SVE) constructed to address soil gas concerns in Onizuka Village. SVE System was shut down in Jun 2020 after RACGs had been met.	Draft EHMP (Winter 2024).	
Bldg. 2036H, Hickam Fire Station #6	Building 2036, Fire Station #6 supports the Hickam airfield at JBPHH. Sampling was conducted as part of an installation-wide SI in 2022 and soil and groundwater were found above screening levels. A Remedial Investigation is planned to evaluate PFAS.	Plan to initiate PFAS RI in 2025	Plan to initiate PFAS RI in 2025.	

Project Status Update Table Summary of Active Projects and Upcoming Documents/Events Navy Environmental Restoration Program, Pearl Harbor-Hickam-Kalaeloa Restoration Advisory Board June 26, 2024 Upcoming Site Name (Green font = Final remedy is in-**Deliverables/Actions Site Description Project Status** (Anticipated Date) place) An AFFF fire suppression system is currently in use at the Building 3004H. AFFF is stored in ASTs held in adjacent Building 3006H. There have been no known releases of AFFF at either building since 1994. It is unknown whether Bldg. 3004H & Bldg. Plan to initiate PFAS RI in discharges of AFFF occurred prior to 1994. Sampling was Plan to initiate PFAS RI in 2025 3006H Storage 2025. conducted as part of an installation-wide SI in 2022 and soil and groundwater were found above screening levels. A Remedial Investigation is planned to evaluate PFAS. Step-out sampling conducted at MRS TS001 in Dec 2018 and Oct 2020, indicated clay pigeon fragments to a depth of approximately 4 feet below ground Made up of 2 Munitions Response Sites MRS TS001 & surface (bgs), and PAH and Final Remedial Investigation Munitions Response TS01A, both Skeet Ranges. COCs Lead, Arsenic, and metals exceeding residential and Addendum Work Plan for Area (MRAs – 1X) PAHs. commercial screening levels in TS001 (Summer 2024). soil, subsurface soil, and groundwater. Additional delineation is required and will be conducted as part of an RI Addendum (Fall 2024).

Project Status Update Table				
	Summary of Active Projects and Upcom	ing Documents/Events		
	Navy Environmental Restoration Program, Pearl Harbor-Hid	ckam-Kalaeloa Restoration Advisory	Board	
	June 26, 2024			
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)	
Former Landfill Site (LF001)	Site LF01 is located between Hickam AFB taxiways and Honolulu International Airport (HNL) taxiways. Site LF01 was the major on-Base landfill from approximately 1942 through the early 1950s. In addition to possible municipal and construction wastes, lubricants, paint wastes, solvents, and sludge were reportedly disposed of in the landfill. The current land use of Site LF01 is classified as "Airfield Clearance Surface" and "Airfield." COPCs are: metals and dioxins.	Annual LTM Inspections and 5- year reviews required. LUC Confirmation Soil Sampling (January 2026).	Annual LTM inspections and reports.	

	Project Status Update	Table	
	Summary of Active Projects and Upcom	ning Documents/Events	
	Navy Environmental Restoration Program, Pearl Harbor-Hid	ckam-Kalaeloa Restoration Advisory	Board
	June 26, 2024		
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)
	LF05 was the primary on-base landfill (Former Tri-Services Landfill) from the late 1940s to 1965, located in the southeastern part of the Base within the active Malama Bay Golf Course. Potential contaminant sources include heavymetal sludges from plating operations, petroleum hydrocarbon related wastes, solvents, residual paint and pesticides in empty containers, other industrial wastes, blasting grit, and buried glass bottles filled with liquid containing 1,1,2,2- tetrachloroethane and petroleum hydrocarbons. COCs include chlorinated solvents.	ROD signed August 2005. Annual monitoring and LUC inspection continues. Additional cleanup is required to prevent TCE and vinyl chloride from reaching Mamala Bay. ROD Amendment signed May 2013. Bioreactor installed March 2015. Bioreactor operation ceased October 2019. Soil Investigation Tech Memo (July 2021) recommended ISCO for destruction/removal of residual TCE source mass. ISCO injection wells were installed February-March 2023. The first two injection events occurred October 2023 and March 2024.	

Project Status Update Table					
	Summary of Active Projects and Upcoming Documents/Events				
	Navy Environmental Restoration Program, Pearl Harbor-Hic	ckam-Kalaeloa Restoration Advisory	Board		
Site Name (Green font = Final remedy is in- place)	June 26, 2024 Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)		
Inactive Landfill 2 (LF014)	Site LF14, formerly Inactive Landfill 2, covers approximately 30 acres in the eastern portion of Joint Base Pearl Harbor-Hickam, and is not a landfill by technical definition. The site is a former soil and debris disposal area, and portions of the site also received green waste. The origination of the debris is believed to be primarily from the demolition of World War II-era ammunition storage bunkers and possibly from other base facilities. Currently, the site is covered by well-established trees and thick grass. Current and expected future land use for the area is industrial because of the site's close proximity to active industrial activities and flight line areas. COPCs are: metals, PAHs, TPH-d, and pesticides.	Annual LTM Inspections and 5- year reviews required.	Annual LTM inspections and reports.		
Fuel Leak/Valve Pit (SS06)	Site SS06 is located near the flight line. Documentation regarding the repair and/or replacement of POL fuel lines, valve pits, and hydrants dates back to 1968. Contamination in soil and groundwater was confirmed during a 1983 drilling program, in which fuel odor and a surface film were observed in a boring. In the early 1990s, fuel-impacted soil was discovered in the same general area that it was found in 1983. Land use in the vicinity of Site SS06 is industrial. Groundwater beneath the site is not considered a drinking water resource. COPCs are: VOCs and PAHs.	Annual LTM Monitoring and 5-year reviews required.	Annual LTM Monitoring and Inspections with Reporting.		

	Project Status Update Table				
	Summary of Active Projects and Upcoming Documents/Events				
	Navy Environmental Restoration Program, Pearl Harbor-Hie	ckam-Kalaeloa Restoration Advisory	Board		
Site Name (Green font = Final remedy is in- place)	June 26, 2024 Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)		
Fuel Leak Area 13 & 14 Area G & H (SS01)	A large fuel plume encompassing a majority of the commercial area of the Base and some adjacent Base housing areas in the northwest part of the Base. Potential contaminant sources include releases of leaded AVGAS to the environment from former USTs, ASTs, and subsurface fuel distribution pipelines and vaults. COCs include LNAPL, VOCs and lead.	EHMP completed in Sept 2021 combining the site with SS156E. Annual gauging is required.	Annual monitoring reports.		
Par 3 (SS015)	Site SS15 is located in the north-central portion of Hickam AFB and covers approximately 25 acres. The Par 3 Golf Course comprises 80 percent of the site. To the west, across Engine Test Road, the site includes an area with wash racks and support facilities. Subsurface fuels contamination associated with pipelines traversing the site was identified during the 1970s. Land use in the vicinity of Site SS15 is industrial and recreational. Groundwater beneath the site is not considered a drinking water resource. COPCs are: VOCs and PAHs.	Annual LTM Monitoring and 5-year reviews required.	Annual LTM Monitoring and Inspections with Reporting.		

Project Status Update Table				
	Summary of Active Projects and Upcom	ning Documents/Events		
	Navy Environmental Restoration Program, Pearl Harbor-Hid	ckam-Kalaeloa Restoration Advisory	Board	
	June 26, 2024			
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)	
SS11 POL Area L	Site SS11 is located in the east-central portion of Joint Base Pearl Harbor-Hickam approximately 105 acres and is separated into two portions: SS11 North and SS11 South. SS11 North consists of administrative buildings, maintenance shops, parking areas, and generally used to support aircraft operation and maintenance. SS11 South consists of paved airfield and used for aircraft operations and maintenance. Both SS11 North and SS11 South historically used underground storage tanks and fuel pipelines leading to past fuel releases in these areas.	Following extensive environmental investigations at the site, the final remedy for SS11 of continued groundwater monitoring for monitored natural attenuation and land use controls is documented in the site's Record of Decision (ROD)/Response Action Memorandum (RAM) signed in 2007. Following many years of groundwater monitoring, SS11's final remedy is currently undergoing optimization and reevaluation.	Draft Remedy Optimization Work Plan (Summer 2025).	

Project Status Update Table Summary of Active Projects and Upcoming Documents/Events Navy Environmental Restoration Program, Pearl Harbor-Hickam-Kalaeloa Restoration Advisory Board June 26, 2024 Upcoming Site Name (Green font = Final remedy is in-**Deliverables/Actions Site Description Project Status** (Anticipated Date) place) All UST removals/pipeline abandonment completed. Since only petroleum was found, the site was transferred out of CERCLA and into the State Contingency Plan. Submitted Final Closure Hickam Runway area 23 USTs/fuel pipelines in Hickam Runway area. COPCs Summary Report, Environmental None. (ST28) include TPH, BTEX and PAHs. Hazard Evaluation/EHMP for Site ST28 (Apr 2013). Received NFA with IC concurrence from HDOH (Sep 2013). LUC inspection and annual monitoring are no longer required per HDOH agreement. CG110 consists of two contaminated areas located on the west portion of Hickam AFB, south of Vickers Road, near Aircraft the active flight line. The site study area occupies Maintenance/Carburet Annual LTM Inspections and 5-Annual LTM inspections and approximately 19 acres and comprises two former Areas of or Cleaning year reviews required. reports. Concern; EA10 and EA22. EA22 has petroleum Area (CG110) constituents in soil and soil gas and EA10 has TCE in soil gas, soil and groundwater.

Project Status Update Table Summary of Active Projects and Upcoming Documents/Events Navy Environmental Restoration Program, Pearl Harbor-Hickam-Kalaeloa Restoration Advisory Board June 26, 2024 Upcoming Site Name (Green font = Final remedy is in-**Deliverables/Actions Site Description Project Status** (Anticipated Date) place) SS156J is NFA. Petroleum, Oils, and Fuel releases from POL Valve Pits in housing area SS156E: EHMP Completed in Lubricants (POL) Valve (SS156E) and next to AMC Passenger Terminal (SS156J). Annual monitoring reports. Sept 2021 combining the site with Pits (SS156) COCs include LNAPL, TPH and benzene. SS01. Annual gauging is required. All UST removals completed. Since only petroleum was found, the site transferred out of CERCLA and into the State Contingency Signer Boulevard area 29 USTs in Signer Boulevard area. COPCs include TPH, Plan. Submitted Final Closure Evaluation of IC requirements BTEX and PAHs. (ST30) Summary Report, Environmental planned for 2024. Hazard Evaluation/EHMP for Site ST30 (Aug 2013). Received NFA with IC concurrence from HDOH (Nov 2013). All UST removals/pipeline Hangar Avenue area 48 USTs/fuel pipelines in Hangar Avenue area. COPCs abandonment completed. NFA None. (ST31) include TPH, BTEX, PAHs and lead. with LUCs. All UST removals completed. Since only petroleum was found, the site was transferred out of 81 USTs in Kuntz Avenue area. COPCs include TPH, BTEX Kuntz Avenue area CERCLA and into the State None. (ST35) and PAHs. Contingency Plan. Received NFA with IC concurrence from HDOH (Nov 2013)

Project Status Update Table						
	Summary of Active Projects and Upcoming Documents/Events					
	Navy Environmental Restoration Program, Pearl Harbor-Hio June 26, 2024	ckam-Kalaeloa Restoration Advisory	Board			
Site Name (Green font = Final remedy is in- place)		Project Status	Upcoming Deliverables/Actions (Anticipated Date)			
Former Mess Hall Area	Site CF023, the Former Mess Hall Area, is a 13-acre site located within the housing and community service areas at the JBPHH, east of the Par 3 Golf Course. Historically the site area contained airman dormitories and squadron headquarters, a mess hall, and supporting facilities. The site was initially investigated because several previous underground storage tank (UST) investigations conducted in the area reported that a buried debris layer containing black ash, of unknown origin, is present at some locations within the site. A Site Inspection (SI) and a Remedial Investigation (RI) were conducted and results indicated elevated levels of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH), dioxins/furans, and metals present in subsurface soil. Also, elevated levels of TPH and dissolved metals are present in groundwater.	Record of Decision (2012). Annual site inspections and 5-year reviews.	Conduct Land Use Control inspection and Draft Annual Inspection Report (Fall 2024).			
Stripper Pit # 43	Stripper Pit #43 Located northeast of the AMC Passenger Terminal. COCs include LNAPL, PAHs, VOCs, TPH-GRO, and TPH-DRO.	EHMP finalized July 2018. Site has LUCs with LTM for soil gas.	Annual monitoring and inspection reports.			

	Project Status Update	Table	
	Summary of Active Projects and Upcom	<u> </u>	
	Navy Environmental Restoration Program, Pearl Harbor-Hic June 26, 2024	kam-Kalaeloa Restoration Advisory	Board
Site Name (Green font = Final remedy is in- place)	,	Project Status	Upcoming Deliverables/Actions (Anticipated Date)
JOINT BASE PEARL H	IARBOR-HICKAM (SHIPYARD AND HALAWA-MAIN GATE)		
Area North of Building 1754, Shipyard GSA	Groundwater contamination identified during previous investigations for UST NS-4, which was removed in 1991. B COPCs include chlorinated VOCs and PAHs.	Regulatory agencies concur with recommended No Further Action in August 2016. Formal concurrence letter received in September 2017.	Monitoring well abandonment activities (2019).
Building 394	Open air Pearl Harbor Naval Shipyard facility used for lead/sulfuric acid battery maintenance from 1960 to 1991. Concerns are lead and antimony soil impacts from spent battery acid and lead residue discharged to an unlined settling pit and runoff to two onsite dry wells.	The site was addressed by a NTCRA asphalt/concrete cover and LUCs as recommended in the Final RI/FS and documented in the Final AM. The cover was completed and accepted in Aug 2014. Action documented in a Final Removal Verification Report (RVR) submitted in Apr 2015; Proposed Plan (July 2015). Discussions with regulatory agencies regarding lead calculations to include in ROD are in progress. Additional lead sampling will be conducted to evaluate LUC boundary.	Final Sampling Plan Addendum (Summer 2024).

	Project Status Update	Table			
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	June 26, 2024				
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)		
Building 8 Site	Subsurface fuel plume from unknown source, but most likely an accumulation of historical spills from fuel pipelines and ASTs and USTs in the area. The plume is approximately 33 acres in size and portions of the plume contain PCBs at levels up to almost 10 ppm.	A product recover system was installed in the late 90s that recovered ~40K gallons, but the system has become obsolete and hasn't been operational since 2018. There is quarterly well gauging performed to insure the plume does not migrate to the harbor. The plume was originally thought to contain only low levels of PCBs (<2ppm), but recent sampling has found higher levels. Because of the, the site is now managed as a CERCLA site (vs. petroleum-only) and is on the NPL. EPA is pressing the Navy to determine if the PCBs could possibly be contributing to the harbor sediment PCB contamination.	An RI was completed in Jan 2022 and an FS/PP/ROD is underway. The draft FS is currently in progress. Well gauging occurs on a quarterl basis and results are documented in a quarterly report.		

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Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)
Transportation Yard – Pearl Harbor Naval Shipyard GSA	Former Shipyard Lower Tank Farm Area. Currently used for heavy service vehicle storage and maintenance and large equipment staging.	Regulatory agencies concur with recommended alternative of LUCs documented in Final RI/FS. Final Proposed Plan submitted in June 2015 and concurred with by regulatory agencies. Discussions with regulatory agencies regarding lead calculations to include in Final ROD are in progress.	Final ROD (Winter 2024) .
Building 6	The Foundry Shop is located in Building 6, within the Controlled Industrial Area, approximately 1000 feet from Pearl Harbor. Contaminated soils were discovered during excavation work for installing new equipment. This site consists of two areas, an excavated area approximately 2100 square feet located inside Building 6, and a sparsely vegetated area approximately 200 square feet immediately adjacent to the Foundry Shop. The excavated area within the building once contained a furnace. This area also contained molding sands used for metal casting. The Shipyard collected samples and analyzed the soil and sand, and lead was found. Since the initial investigation was performed the foundry has been shutdown and will no longer be used.	ROD signed in June 2012. RAWP prepared in March 2013. Controls include land use restrictions and noticed placed around the perimeter of the site.	Annual LUC inspection reports.

Project Status Update Table Summary of Active Projects and Upcoming Documents/Events Navy Environmental Restoration Program, Pearl Harbor-Hickam-Kalaeloa Restoration Advisory Board June 26, 2024 Upcoming Site Name (Green font = Final remedy is in-Deliverables/Actions **Site Description Project Status** (Anticipated Date) place) Quarterly well gauging along with boom/pompom Site is managed under an EHMP maintenance and extraction Subsurface fuel plume from former USTs used to fuel completed in Nov 2019. The site from collection sumps if power plant. Fuel has been leaking into the harbor since is managed by maintaining booms Oscar 2 Pier buildup is sufficient is the the 1970s. A barrier wall installed in 1998 has not stopped and absorbent material to contain selected alternative. Site the leaking. the leakage, which is slow but inspections and observations continual. are provided to Navy on a weekly basis. An RI was completed in February 2022 to investigate the nature and extent of the petroleum NAPL within the site's subsurface. COPCs in soil and groundwater included metals, TPH, PCBs, and PAHs. The RI recommended The upcoming deliverable is LNAPL and PCBs on Subsurface petroleum and PCB site that was discovered further action to address NAPL at Groundwater (Dry pending the determination for during a construction project near the Dry Docks. the site and identified the Docks) further evaluation. underground storm drain at the site a potential transport pathway for PCBs to Southeast Loch. A draft FS was completed in August 2022. As of June 2024, the site is being evaluated for further investigation.

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	The former IWTP site is located in the Shipyard Geographic Study Area. The southeastern portion of the former IWTP site is located within the administrative boundaries for the Lower Tank Farm, where the fuel plume with TPH, BTEX, and PAHs impacted the groundwater.	An RI was conducted in 2013 to investigate the potential impact of COPCs (VOCs, SVOCs, metals, and PCBs) related to previous waste handling activities in soil, sediment, and groundwater. The RI recommended no further action at the site. PFAS investigations at the site started in 2018 and is on-going. In 2024, three nearby sites were added for PFAS investigation (Bldg. 1526, Bldg. 1665, and the former PHNSY firefighting training area).	Draft RI Addendum Work Plan (Summer 2024).
Building 67	System constructed about 1915 and were designed to manage surface water runoff. Past practices included disposal of liquid industrial waste into the storm drains, potential contaminants include SVOCs, PCBs, metals pesticides, and PFAS.	PFAS RI initiated in 2024.	Draft Remedial Investigation Work Plan (2025).

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Site Name (Green font = Final remedy is in- place)	June 26, 2024 Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)	
Drain lines – various areas at Pearl Harbor Naval Shipyard (PHNSY) Geographic Study Area (GSA)	Storm drain inlets at 17 facility sites within PHNSY GSA identified as potential release sources to the storm drain system. Chemicals of potential concern (COPCs) which exceeded project action levels (PALs) include TPH, metals, and volatile organic compounds. Impacted media include surface soil, subsurface soil, groundwater, soil gas, and sediment (in storm drains). The Navy completed a non-time-critical removal action of sediment from various storm drain inlets were in 2015, and a draft final feasibility study in 2018. As of June 2024, the site is pending further investigation on the extent of subsurface soil and groundwater contamination at or in the vicinity of these these storm drain sites.	A technical memorandum was completed in 2022 to identify further investigation needed at various drain sites. A draft remedial investigation (RI) addendum work plan was completed in January 2023 for further investigation at select storm drain sites.	Draft Final RI Addendum Work Plan (2025).	
Shoreline Asbestos Site Northwest of Dry Dock	Flat narrow piece of land approximately 800 ft. long and 8 feet wide located along the shoreline in Controlled Industrial Area of the Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility. In 2000 time-critical removal action completed to remove asbestos contaminated soil to <1%.	ROD signed in Jul 2010. Remedial action to install signs and concrete cover over exposed soil completed in Oct 2011. RACR signed in Jul 2012, regulatory concurrence received in Aug 2012. LUCs and 5-year reviews required.	Annual LUC inspections.	

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Shipyard Petroleum	There are several potential sources of fuel releases in the Shipyard Geographic Study Area: the Lower Tank Farm, pipeline corridors, and USTs. Two removal actions have been implemented in the Shipyard GSA, specifically at Bldg 8 (NSY Site 37) and Oscar 2 Pier (NSY Site 46) to address fuel releases that were visually migrating into Pearl Harbor.	Site is currently managed under the 2010 EHE/EHMP which recommends establishing an administrative boundary to prevent or limit exposure to site users. NFA with institutional controls recommended.	No upcoming deliverables.
JOINT BASE PEARL H	ARBOR-HICKAM (HALAWA-MAIN GATE)		
RAA 11, 12, 13 – Halawa main gate GSA, FISC area	The site is composed of Remedial Action Areas (RAAs) 11, 12, and 13. RAA-11/13 are composed of a monitoring well at each location. Vinyl chloride was found in the groundwater at elevated concentrations. At RAA-12 trichloroethylene (TCE) has been found in groundwater with potential vapor intrusion issues at 4 buildings.	The RAA-11/13 NFA ROD was completed in 2013. The RI/FS fieldwork for RAA-12 was completed in 2014. Preparation of a PP is pending DOD accepted screening levels which are compatible with the industrial/commercial use of the site. Interim VI monitoring continues at Bldg. 444, 416, 451K and 1682 and groundwater monitoring at the site to verify that the site is safe for the current use.	Plans are to continue VI monitoring at Bldg. 444, 416, 451K and 1682 and to continue to sample select groundwater wells to verify the groundwater plume is stable. The RAA-12 PP anticipated to incorporate upcoming DOD action level for indoor air projected to be issued in 2024.

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Tank & 1721 Pump	Bldg. 1721 was built as a fire protection pump station in 1988, and Bldg. 1613 is a small concrete building that houses a 3,800-gallon AST for storing AFFF. Building 1554 contains a 50-gallon AFFF tank which supports the Halawa Upper Tank Farm and has had no known releases. In December 2019, AFFF-impacted water was released within Building 1721, then flowed to the exterior area. In September 2020, approximately 5,000 gallons of AFFF impacted water was released and contained within an underground pump house due to an inadvertent trigger of the fire suppression system.	PFAS RI to be initiated in 2024	Draft Remedial Investigation Work Plan (2025).
Drainlines – various areas at Halawa Main Gate (HMG) GSA	Storm drain sites at five facility sites located within the HMG GSA identified as potential release sources to the storm drain system. COPCs which exceeded PALs include PCBs, TPH, PAHs, metals, and dimethylphathalate. Impacted media include surface soil, subsurface soil, groundwater, and sediment (in storm drains). The Navy completed a non-time-critical removal action of sediment from various storm drain catch basins and clean sections of drain pipes in 2015. A final RI/feasibility study (FS) of four storm drain sites was completed in 2019. As of June 2024, the site is pending further investigation on the extent of subsurface soil and groundwater contamination at or in the vicinity of these these storm drain sites.	A technical memorandum was completed in 2022 to identify further investigation needed at various drain sites. A draft remedial investigation (RI) addendum work plan was completed in January 2023 for further investigation at select storm drain sites.	Draft Final RI Addendum Work Plan (2025).

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Various PHNC Transformer sites: Ford Island, Waipio Peninsula, Halawa Main Gate	Transformer site with LUCs. ROD signed in 2010.	Annual inspections and 5-year reviews	PHNC NPL 3rd Five Year Review Report (Fall 2024).
Subsurface Fuel Sites	The site consists of several subsurface fuel plumes in the Halawa Main Gate area and the NAVSUP Fleet Logistics Center. The sites are divided into 10 Remedial Action Areas (RAA). The plumes are being monitored and all plumes are currently stable. The fuel release in 2020 at Hotel Pier (RAA-1) is apparently not related to historical contamination.	The site is in long-term management phase. The Environmental Hazard Evaluation/Management Plan was updated in Mar 2014 to include information from the 2007 release. Each RAA has an agreement memorandum signed by HDOH. All 10 RAAs have Institutional Controls in-place to deal with future projects; RAAs 1-4 have long-term monitoring requirements.	Monitoring reports for RAAs 1-4 are generated annually, semiannually, or on a 5-year basis depending on the site and the results from the monitoring efforts.
Building 644, Halawa Main Gate GSA	Former foundry building near Magazine Loch. Interior of building mostly paved with asphalt or concrete, but contains two earthen areas covered with steel plates.	Final SI Report completed in Oct 2011. NFA recommended under CERCLA. Petroleum contamination in subsurface managed as part of subsurface fuel sites.	None.

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JOINT BASE PEARL H	IARBOR-HICKAM (PEARL CITY PENINSULA)			
Landfill, Waiawa Unit, and Burn Area Site	Pearl City Peninsula Landfill IR site includes 67 acre landfill & 25 acre wildlife refuge; Burn Area Site encompasses approximately 100 acres. Landfill and Burn Area Site separated by Waiawa Stream. A portion of the landfill area extends onto approximately 4 acres of City and County of Honolulu (CCH) property. Sites located on northwest side of peninsula. COPCs include metals, pesticides, herbicides, PCBs, petroleum, VOCs, PAHs, and dioxins.	Final Phase II RI Report completed in October 2012. Draft Feasibility Study prepared in August 2013, and currently undergoing review; potential for part of the investigated site to be addressed under a separate environmental program. Additional soil sampling occurred in Summer 2019.	Draft Feasibility Study Work Plan (Winter 2024).	
FISC Fuel Annex	The Pearl City Fuel Annex (PCFA) is a 16.7-acre site on the Pearl City Peninsula (Pearl Harbor, Oahu, HI) that was used to receive, store, issue and inventory bulk fuels. Potential sources of contamination include: product releases, the sandblasting and painting of above-ground storage tanks and associated pipelines, and past tank and sludge and condensate disposal practices. COPCs are: arsenic, lead and antimony, PCBs, TPH, BTEX, PAHs, PFAS in soil and metals, TPH, BTEX, PAH, and PFAS in groundwater.	Additional RI Addendum fieldwork to be started in Winter 2024.	Draft Additional Remedial Investigation Addendum Work Plan (Fall 2024).	

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JOINT BASE PEARL H	IARBOR-HICKAM (FORD ISLAND)		
Ford Island Landfill	4.5 acre landfill located on west end of Ford Island. Landfill was used from 1930's to 1960's to dispose of waste from maintenance activities on Ford Island. Removal action to construct vegetated cap completed in 1997.	ROD signed in Sep 2011. LUCs, long-term maintenance and 5-year reviews required. RAWP completed May 2012. LTM plan completed and LUC signs installed in July 2013. Final RACR completed July 2016.	Annual LTM reports, annual inspections, PHNC NPL 3rd Five Year Review Report (Fall 2024).
Various PHNC Transformer sites: Ford Island, Waipio Peninsula, Halawa Main Gate	Transformer site with LUCs. ROD signed in 2010.	Annual inspections and 5-year reviews	PHNC NPL 3rd Five Year Review Report (Fall 2024).
Former Buildings 80 & 302	Former garage and grease ramp located on south end of Ford Island. Prior investigations found elevated concentrations of metals in soil. 2006 removal action performed to consolidate contaminated soil beneath asphalt and vegetated cover.	LUCs, long-term maintenance and 5-year reviews required. LTM plan completed and LUC signs installed in July 2013; Final RACR completed June 2016.	Annual LTM reports, annual inspections, PHNC NPL 3rd Five Year Review Report (Fall 2024).
Building 284	Building 284 is a former engine test cell facility located on southwest corner of Ford Island. Prior investigations found elevated concentrations of metals in soil. 2006 removal action performed to construct vegetated cover.	LUCs, long-term maintenance and 5-year reviews required. LTM plan completed and LUC signs installed in July 2013; Final RACR completed June 2016.	Annual LTM reports, annual inspections, PHNC NPL 3rd Five Year Review Report (Fall 2024).

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JOINT BASE PEARL H	HARBOR-HICKAM (KALAELOA)		
Former NAS Barbers Point Sanitary Landfill	The former Barbers Point Sanitary Landfill (SLF) is located at Former Naval Air Station (NAS) Barbers Point, Joint Base Pearl Harbor-Hickam, Kalaeloa, Oahu, Hawaii. The site is within a portion of the Naval Facilities Engineering Systems Command (NAVFAC) Hawaii Biosolids Treatment Facility, formerly referred to as the Solid Waste Management Facility, used by NAVFAC Hawaii for green waste composting operations or for storage and processing of biosolids and compost. The SLF waste limits encompass approximately 5 acres in an excavated coral pit. Historically, solid wastes including construction debris, municipal waste, pesticide containers, pesticide rinsates, rags contaminated with solvents and oils, and asbestos-containing materials were disposed of at the former Barbers Point SLF. The landfill is no longer in operation.	Final Decision Document (2021) selected remedy for impermeable landfill cover and land use controls.	Draft Final Design and Work Plan (Summer 2024), Final Design and Work Plan (Summer 2024), Fieldwork commenced in Spring 2024.
Coral Pit 1	Coral Pit 1 occupies 2 acres. It was excavated from 1960 to mid 1970s for fill material used in construction projects. It was then used from the mid-1970s through the early 1980s as an active disposal area for construction debris and vegetative waste. COPCs are: metals, PCBs and PAHs in soil.	Annual LTM Inspections and 5- year reviews required.	Annual LTM inspections and reports.

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Coral Pit 2	Coral Pit 2 occupies 13 acres. It was excavated from 1940s to 1960s. It was then used for disposal of construction and demolition debris. It was also used as a stormwater collection area for runoff generated from the residential developments north of former NAS Barbers Point. The land is currently not being used. COPCs are: metals and PAHs in soil.	Annual LTM Inspections and 5- year reviews required.	Annual LTM inspections and reports.
Consolidation Unit	The Consolidation Unit (CU) overlies the "Monofill" (existing special waste landfill containing contaminated soil, debris, and investigation-derived waste from multiple cleanup sites at the former Naval Air Station Barbers Point) at the NAVFAC Hawaii Biosolids Treatment Facility located in the southwestern portion of the former Naval Air Station Barbers Point bounded by the SLF to the southwest. The CU was constructed over the entire 5.2-acre footprint of the Monofill site and resembles an oval-shaped, grass-covered, flat-topped hill with sloping sides. The CU includes methane gas vents, monitoring wells, access roads, fencing, and stormwater drainage structures (swales and infiltration pond).	Annual site inspections, monitoring, and 5-year reviews.	Final Long-Term Monitoring Plan (Summer 2024).
Barbers Point IR Transformer sites	Transformer site with LUCs. ROD signed in 1999.	Annual inspections and 5-year reviews	JBPHH Non-NPL Five Year Review Report (Summer/Fall 2024).

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JOINT BASE PEARL H	JOINT BASE PEARL HARBOR-HICKAM (WEST LOCH)			
Former Burn Pit	The Former West Loch Burn Pit is approximately 0.4-acre site located about 400 feet west of Building 484. The site was identified on archival maps, but information on types of items disposed of at the site during its use was not available. There were known ordnance burned at NMC EAD DET PH Lualualei Annex Burn Pit sites, and initially considered to have done the same at this site. There are no records of any MEC and/or MPPEH burned/buried/disposed or otherwise encountered at this site. The PA and SI recommended further investigation to determine nature and extent of soil contamination.	Final PI Work Plan (July 2015)	Draft RI Report Addendum (Summer 2024).	

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Electrical Component Disposal Area	The site is 0.3 acres in the West Loch historically used for disposal of miscellaneous materials including electrical components, munitions debris, and metal debris. In 2004, a SI was conducted to evaluate COPCs associated with electrical component and other debris disposal at the site. A practice bomb containing a phosphorus charge was discovered on the surface of a debris stockpile of electrical components during the 2004 SI and further evaluation was recommended. During a PA in 2007/2009, the practice bomb was confirmed by Navy EOD and the site was transferred from IRP to the MRP. Additional munitions debris (MD) was discovered during the PA and surface removal was recommended. In 2011, and MRP SI was conducted and 822 lbs. of MD and 4,000 of scrap metal were recovered. Ongoing RI/FS to delineate the extent of PCBs, metals, and explosives in soils with UXO avoidance during field sampling activities.	Final RI Work Plan (December 2013). Initial fieldwork started March 2015 and step-out sampling continued through 2021. Draft RI Report (2021).	Draft Final RI Report (Fall 2025).

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Fuel Storage Facilities Aboveground Storage Tank	The West Loch Fuel Storage Facilities area is comprised of two abandon ASTs and distribution pipelines: AST at Bravo Road and G Avenue and Abandoned Diesel Oil Distribution System AST. A SI was completed in June 2004. Only the surface soil samples along the pipeline extending westward from the AST, exhibited exceedances of benzo(a)pyrene. TPH (DRO and MORO), and Benzo(a)pyrene were detected above the screening criterion in the surface soil samples along the Abandoned Diesel Oil Distribution System AST.	surface and subsurface soils were	None.	

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4th St Coral Pit Landfill	Located at West Loch Branch, between 4th St. and the old railway tracks. Approximately 1,000 ft. in length with a maximum width of about 250 ft. Ground surface elevations range from approx. 15 - 25 ft. above MSL. In 1930s, the landfill was excavated as a source of coral for use as road construction materials. During WWII the coral pit was used as a waste disposal site for solvent cans, paint sludges, paint cans, empty transformers, acid-filled automobile batteries, and dunnage. In mid-1970s, the landfill was covered with coral rock by the Army Corps of Engineers to preclude further disposal of potentially hazardous materials. The landfill cover consists of graded coral rock which is presently 3-5 ft. below the surrounding grade. Scrap metal disposal was permitted at the site later and unauthorized disposal continued.	Annual LUC Inspections	Annual LUC Inspections.
West Loch Fuel Waste Storage Area	The West Loch Fuel Waste Storage Area is situated on the south side of 7th Street (at Bldg 554). From the early 1970s to 1981, solid waste containing fuel designated for incineration was stored in this area to the east of the former incinerator unit (Building 484). Cyanide was detected above a screening criterion (California-designated maximum concentration of 1 mg/kg cyanide in soil to protect marine waters) in a subsurface soil sample. PGDN was detected in the groundwater from one monitoring well.	Fieldwork completed in September 2012. Second round of groundwater (GW) sampling not conducted due to soil and 1st round GW sample results. Final RI Report (November 2013). Proposed Plan (June 2014). Final ROD signed (September 2016). Site Closed out.	None

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JOINT BASE PEARL H	HARBOR-HICKAM (WAIPIO PENINSULA)		
OSC Herbicide/ Fertilizer Mixing Area	investigations for marine sediment adjacent to the site, in	completed in June 2019. A Draft RI/FS for sediment was prepared in January 2021. Based on	Draft RI Work Plan for land area (Spring 2025).
Confined Disposal Area	The Confined Disposal Area is located on the South end of Waipio Peninsula. During construction of a project in January 2001, abandoned metal pallets were discovered and the soils in the area were observed to contain metal and paint debris. Four surface soil samples were collected and the analytical results indicated concentrations of metals above the screening criterion in the surface soil samples.	Draft RVR completed in Nov 2021. Currently addressing regulatory agency comments.	Final RVR (Summer 2024).

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Waipahu Ash Landfill	The Waipahu Ash Landfill (WALF) is located on the Waipio Peninsula, and covers approximately 41 acres It is located at the end of Waipahu Depot Street, opposite the former City Waipahu Incinerator. The southern two-thirds of the WALF is situated on the real property of the Pearl Harbor Naval Complex. The City operated the WALF as a modified area fill from the early 1960's until November 1991. It was used for disposal of municipal solid waste until approximately 1972, when it was used exclusively for the disposal of municipal waste combustion from the City's Waipahu Incinerator. The WALF was closed in 1991. A Memorandum of Understanding (MOU) and Administrative Order on Consent (AOC) was signed by Navy, DOH, EPA, and City under which CCH will conduct a CERCLA Remedial Investigation/ Feasibility Study (RI/FS) action as responsible party. The announcement of the signed MOU was published in the Federal Register in April 2014.	The City completed the second phase of the RI field investigation in May 2021. Results from the second phase are currently being evaluated and additional sampling is to be determined.	Draft-Final RI Report (2024).

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Sandblast Grit	The site consists of two non-continuous sandblast grit disposal locations; one is along an un-named road (middle of peninsula) and the other is at the end of a roadway (southern portion of peninsula) near the Confined Disposal Area (CDA) at the southern end Waipio Peninsula. The origin of the sandblast grit is unknown, but the Waipio Peninsula was used during World War II as an operating base. Following the discovery and preliminary sample of the sandblast material in 2010, a Visual Site Inspection in 2011 was performed to delineate the visible extent due to exceedances of arsenic and lead. A Time Critical Removal Action (TCRA) was completed in 2012 to remove the visible sandblast grit (a total of approximately 60 tons between the 2 areas). Confirmation sampling from the excavation areas concluded that delineation in the subsurface was required. Ongoing RI at the site to delineate the sandblast grit.	A Time Critical Removal Action was completed in May 2012. Final Removal Verification Report (December 2012). Final Remedial Investigation Work Plan (April 2014). Draft Remedial Investigation Report (June 2015). Step-out sampling was determined necessary to find the nature and extent of contamination. Fieldwork continued through 2022.	Revised Draft Remedial Investigation Report (Fall 2024).
Various PHNC Transformer sites: Ford Island, Waipio Peninsula, Halawa Main Gate	Transformer site with LUCs. ROD signed in 2010.	Annual inspections and 5-year reviews	PHNC NPL 3rd Five Year Review Report (Fall 2024).

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JOINT BASE PEARL H	IARBOR-HICKAM (RICHARDSON FIELD AREA)		
Former Fleet Training Group Fire Fighting Training Area	Former fire-fighting training area (1940's to 1976) located at Richardson/Marina Park. Sampling was conducted as part of an installation-wide SI in 2022 and groundwater and soil were found above screening levels. In May 2019 a separate PFAS release occurred when AFFF was used during the emergency response for a barge fire at a nearby location. A Remedial Investigation is planned to evacuate the former fire fighting training area and the barge fire area.	PFAS RI to be initiated in 2024	Draft Remedial Investigation Work Plan (2025).
Inactive Petroleum Pipelines at Halawa Landing	Site is located in an asphalt paved parking area southeast of the U.S.S. Bowfin Museum. Inactive 8-inch and 16-inch fuel oil pipelines were cleaned and closed in-place in 2004, as part of a removal action. Petroleum contamination identified in soil at Access Pit #5 during the removal action. Contamination confirmed with additional sampling in 2006.	NFA with ICs.	None.

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JOINT BASE PEARL H	IARBOR-HICKAM (NAVFAC HAWAII COMPOUND)		
Building X-24 at NAVFAC HI Compound	Bldg. X-24 is a Quonset hut that was used for storage. A small tar spill was observed outside the building.	This small tar spill (de minimis release) housekeeping action completed. Lead and arsenic above screening levels remain. Final SI Report (May 2019), followed by Final RI Report (Apr 2021). Lead Based Paint flaking off of the building prevents an NFA determination. Currently working towards funding abatement.	Draft FS Report (2026).
Makalapa Pesticide Rinsate Pit	Site is located near the Namur Road gate on the NAVFAC HI compound. Pesticide equipment was rinsed and the rinse water was released into the two unlined pits.	Final Explanation of Significant Differences signed by both EPA and DOH Feb 2016. Final RVR/RACR submitted to EPA and DOH. EPA's NFA letter received Aug 29, 2016. Site has been closed out.	None.

	Project Status Update	Table	
	Summary of Active Projects and Upcom	<u> </u>	
	Navy Environmental Restoration Program, Pearl Harbor-High	ckam-Kalaeloa Restoration Advisory	Board
	June 26, 2024	T	Una a service se
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)
JOINT BASE PEARL H	IARBOR-HICKAM (MAKALAPA CRATER AREA)		
Makalapa Crater Early Disposal Area, Former Pesticide Rinsate Area, Landfill Area, and Clean Fill Area	Site includes 4 AOCs: (1) Early Disposal Area was used to dispose of dredge spoils from the 1930's to 1940's and underlies other 3 AOCs; (2) Former Pesticide Rinsate Area used for pesticide/herbicide container rinsate disposal from 1950's to 1974; (3) Landfill Area was used for general disposal in 1950's; (4) Clean Fill Area comprises 5 acres where private contractors disposed of construction debris in mid 1970's. COPCs include munitions constituents, metals, pesticides, herbicides, PCBs, petroleum, VOCs, PAHs, and dioxins	RI Field work completed in May 2013. Additional step-out soil gas samples collected in Jan 2015. Final RI completed Nov 2016. RI Addendum sampling was performed in 2020 to delineate contamination on northeast side of site. The Draft RI Addendum report was completed in Dec 2020. Currently evaluating if additional sampling or site characterization is needed.	Draft Final RI Addendum Spring 2025.
Time-Critical Removal Action for contaminated soil/debris at Radford High School (RHS)	Subsurface soil contamination and debris encountered by State Dept of Education (DOE) during track renovation project in late 2013. Contamination associated with past disposal activities at a former salvage yard area the on northeast side of Makalapa Crater site. TCRA performed to remove contaminated soil stockpiles at RHS and address subsurface contamination to allow DOE contractor to complete track renovation project and replace system on football field.	Navy has completed actions to over excavate and cap areas of contaminated soil and debris. Navy completed final site restoration, with placement of new sod on football field in April 2016.	None. Future environmental investigation of the former Navy property is being managed by the Army Corps of Engineers under the Formerly Used Defense Sites (FUDS) program.

	Project Status Update	Table	
	Summary of Active Projects and Upcom	ning Documents/Events	
	Navy Environmental Restoration Program, Pearl Harbor-Hie		Board
	June 26, 2024		
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)
FORMER WAIKELE BI	RANCH		
Burn Pit Site	The site is a former burn area for ordnance shipping materials and trash. Contaminated soil with lead and arsenic has been buried under a soil and vegetative cover.	Site has DD and LUCs in place. LTM was on-going for site inspections and maintenance of the soil and vegetative cover. In 2014 a FS was prepared to reevaluate remedial alternatives to eliminate or reduce the risk posed to receptors by soil contamination. The remedial alternative to excavate, transport and dispose of material in a CERCLA-Approved Landfill was selected and would allow for unrestricted use of the site. An Amended DD was completed in Apr 2015. Remedial action fieldwork began Apr 2015 and completed in Feb 2016. Final RVR completed in Oct 2016 and documented metal (lead and arsenic) concentrations met the clean-up goal. Final RACR completed in Mar 2019. NFA for site.	None.

	Project Status Update	Table	
	Summary of Active Projects and Upcom	ing Documents/Events	
	Navy Environmental Restoration Program, Pearl Harbor-Hid	kam-Kalaeloa Restoration Advisory	Board
	June 26, 2024		
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)
Building 21	The former building was part of a transportation complex where vehicles were stored and maintained. POL associated waste was investigated.	Contaminated surface soils have been remediated. Contaminated groundwater for carbon tetrachloride is still a concern. DDs are in place and the site is in LTM. Annual groundwater sampling and LUC inspections are being done.	Annual LTM reports.
USTs 50/51	The site is the former automotive service station. Two leaking underground storage tanks (UST-50/51) were removed in 1993. Near surface POL contaminated soil has been removed and a soil vapor extraction (SVE) system used.	The SVE system has been removed with DOH concurrence. The site has received a conditional NFA from the HDOH UST Section.	None.

	Project Status Update	Table	
	Summary of Active Projects and Upcoming Documents/Events		
	Navy Environmental Restoration Program, Pearl Harbor-Hid		Board
	June 26, 2024		
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)
JOINT BASE PEARL H	HARBOR-HICKAM (VARIOUS AREAS)		
Pearl Harbor Sediments	Site extends within the submerged lands of Pearl Harbor. Sediments have potential contamination from water and land-based Navy activities, past and present commercial and urban activities, current and past agricultural areas and urban/industrial run-off. Chemicals of concern include PCBs, and metals. Fish tissue samples indicate levels of PCBs in excess of the fish consumption-based screening criteria were present in the bottomfish in several areas within the harbor. Department of Health Fish Advisory in place for the entire estuary of Pearl Harbor. Remediation of sediments currently underway consisting of placement of activated carbon, sand capping, and dredging.	Record of Decision signed on Sep 26, 2018. Basis of Design finalized Apr 2019 and Remedial Design Package finalized Oct 2019. Remedial Action Work Plan and Environmental Monitoring and Management Plan finalized (Sep 2020). Amendments to the Remedial Action Work Plan and Environmental Monitoring and Management Plan (Mar 2022 and Oct 2023).	Final Long-term Monitoring Work Plan (Summer 2024).
Former Pearl City Junction	This site was used as a temporary storage area for miscellaneous DOD property from 1944 to 1984. From 1962 to 1984, an unpaved area at the site was reportedly used for storage of deteriorated and leaking materials, including transformers containing PCB-contaminated dielectric fluid. As the result of an SI conducted by the Navy in 1990, PCBs and the pesticide Dieldrin were identified as contaminants of concern in two different areas of the site.	Draft RAWP for LUCs is next, but issues concerning Navy access to non-Navy property have to be worked out.	Five-Year Review (2023). Final RAWP (TBD).

Project Status Update Table Summary of Active Projects and Upcoming Documents/Events Navy Environmental Restoration Program, Pearl Harbor-Hickam-Kalaeloa Restoration Advisory Board June 26, 2024 Upcoming Site Name (Green font = Final remedy is in-Deliverables/Actions **Site Description Project Status** (Anticipated Date) place) 61 transformer sites with potential PCB contamination in Final RI report completed Nov Various Transformer soil and/or concrete. Sites located throughout areas of 2016. RI Addendum planned for Draft Final RI Addendum JBPHH. Sites investigated based on historical maintenance delineation sampling. Draft RI Sites, Pearl Harbor Work Plan (Summer 2025). practice of discharging PCB-containing dielectric fluid to the Addendum WP completed April Naval Complex NPL 2018. ground. Draft SI Plan was completed in Oct 2019. The areas of interest Various Areas of A SI to evaluate potential historical releases of aqueous film (AOIs) planned for SI sampling forming foam (AFFF) at various NPL areas at JBPHH. SI Interest for per- and was updated in a Revised Draft SI Errata package (Summer polyfluoroalkyl sampling includes collection of soil and groundwater 2024). Work Plan completed in May substances (PFAS) samples at locations with a known or likely past release of 2021. Field work completed in (PHNC NPL) AFFF. 2022, and Draft SI reports prepared in Nov 2023. Draft SI Plan was completed in Oct 2019. The areas of interest A SI to evaluate potential historical releases of aqueous film (AOIs) planned for SI sampling forming foam (AFFF) at various non-NPL areas at JBPHH. Various Areas of was updated in a Revised Draft SI Errata package (Summer Interest for PFAS (Non-SI sampling includes collection of soil and groundwater Work Plan completed in May 2024). NPL) samples at locations with a known or likely past release of 2021. Field work completed in AFFF. 2022, and Draft SI reports prepared in Nov 2023. Various NPL Fire Sampling was conducted as part of an installation-wide SI in 2022 and soil and groundwater were found above Stations (Ford Island, Plan to initiate PFAS RI in Plan to initiate PFAS RI in 2025 West Loch, Main screening levels. A Remedial Investigation is planned to 2025. Base) evaluate PFAS.

	Project Status Update	Table	
	Summary of Active Projects and Upcom Navy Environmental Restoration Program, Pearl Harbor-Hic	<u> </u>	Board
	June 26, 2024		
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)
Site in the Pearl	In the early 20th century, the U.S. Army built batteries to protect the shores of Oahu. Historical records indicate as part of training, ordnance was fired from these positions into the Pearl Harbor Navy Defensive Sea Area (NDSA). The Pearl Harbor NDSA is situated off Iroquois Point, Oahu, Hawaii and occupies an approximate area of 2,741 acres, including the submerged LUC site of approximately 1,933 acres.	Completed Final RI/FS (July 2015) and Proposed Plan (November 2017) and Decision Document (Nov 2019). Began installation of LUCs (2023).	Final LUC WP (2024), Draft RACR (2024).
Harbor Naval Complex (PHNC) National Priorities List (NPL)	A CERCLA Five-Year review conducted for the PHNC NPL site. The Five-Year Review evaluated sites with LUCs to verify that current site conditions (soil/vegetated covers, asphalt/concrete caps, etc.) remain protective of human health and the environment	Second Five-Year Review completed in Sep 2019.	PHNC NPL 3 rd Five Year Review Report (Fall 2024).
Various Non-NPL Sites in JBPHH	A CERCLA Five-Year review conducted for Non-NPL sites. The Five-Year Review evaluated sites with LUCs to verify that current site conditions (soil/vegetated covers, asphalt/concrete caps, etc.) remain protective of human health and the environment.	Third Five-Year Review currently being finalized	JBPHH Non-NPL Five Year Review Reports (Summer/Fall 2024).
OTHER OR OUTLYING AREAS			
Bldg. 612, Camp Smith	Fire Station #16, Building 612 is located at Camp H.M. Smith. AFFF is stored on two fire trucks and AFFF is refilled at this fire station. A reserve of AFFF was also previously stored at the fire station.	PFAS RI initiated in 2023.	Draft PFAS RI WP (Summer 2024).

	Project Status Update	Table	
	Summary of Active Projects and Upcom	<u> </u>	
	Navy Environmental Restoration Program, Pearl Harbor-Hic June 26, 2024	ckam-Kalaeloa Restoration Advisory	Board
Site Name (Green font = Final remedy is in- place)		Project Status	Upcoming Deliverables/Actions (Anticipated Date)
Former Oily Waste Disposal Facility	were conducted between 1991 and 2000. Following an	in-progress and in the data evaluation phase. Field work for the Site Assessment was completed, and status updates of activities and preliminary findings	A Technical Memorandum is projected for Winter 2024, and the Draft Site Assessment Report is projected for Summer 2025.

Project Status Update Table			
	Summary of Active Projects and Upcom		Deard
	Navy Environmental Restoration Program, Pearl Harbor-Hio June 26, 2024	ckam-kalaeloa Restoration Advisory	Board
Site Name (Green font = Final remedy is in- place)		Project Status	Upcoming Deliverables/Actions (Anticipated Date)
Red Hill PFAS Release	A documented release of 1.300 gallons of aqueous film-forming foam (AFFF) concentrate occurred at the Adit 6 location of Red Hill Bulk Storage Facility in November 2022. Spill response cleanup actions were performed to address concrete, asphalt, and soil impacted by the spill area, however additional long-term response actions are needed to evaluate impacts from per- and polyfluoroalkyl substances (PFAS) as an emerging contaminant in soil and groundwater, as the site is located above a drinking water aquifer.	Spill response completed in January 2023.	Draft Work Plan (Summer 2024).
Former Aiea Laundry	The Navy Exchange Service Center operated the Former Aiea Laundry Facility until 1998, when operations ceased and the buildings were demolished. Dry cleaning operations were conducted at the site from the early 1950s to mid-1970s using tetrachloroethene (PCE). Stoddard Solvent was then substituted as the primary dry cleaning solvent until 1994, when a self-contained PCE dry cleaning system was installed. PCE was found to have been released and has migrated off property.	The Treatability Study (TS) for soil vapor remediation is in-progress at the former Laundry Area and Backyard Area until the Record of Decision is signed for the site. As part of the TS, the soil vapor extraction system continues to operate for mitigation of subsurface vapor contamination. Routine vapor intrusion (air/vapor) and annual groundwater monitoring continues to be performed. Additional monitoring and investigation at the neighboring property continues.	A Draft Proposed Plan is projected for Summer/Fall 2025, and a Draft Record of Decision is projected for Winter 2026.

	Project Status Update	Table	
	Summary of Active Projects and Upcom Navy Environmental Restoration Program, Pearl Harbor-Hid		Board
	June 26, 2024	Skall Raidelea Redioration Ravisory	Bourd
Site Name (Green font = Final remedy is in- place)	Site Description	Project Status	Upcoming Deliverables/Actions (Anticipated Date)
UST BP-1	The UST was first identified on a 1942 plan file drawing during a site summary evaluation and thought to have contained gasoline. Approximate location of the tank was discovered during 2008 renovation of Bldg 19. Investigation of the area detected lead in the soil and indicated 3 locations where the UST could have been based on the geophysical anomalies detected underground and lead contamination in the area. A dense debris layer was also found, which may have been contributed from the incinerator activities that occurred nearby in the 1930's.	Remedial Investigation (2015). Feasibility Study (August 2016). Proposed Plan (April 2017). Draft ROD (2018). Discussion with regulatory agencies regarding lead calculations is in progress.	Draft Final ROD (2027).
Former Bazooka Practice Range	The Bazooka Practice Area (BPA) is located north of Baugh Road in the upland (mauka) portion of Camp H.M. Smith, a Marine Corps facility that occupies a total of 220 acres in the foothills of the Koolau Mountain Range on the island of Oahu, Hawaii. Camp H.M. Smith, located approximately 1.5 miles northeast of Pearl Harbor on a ridge known as Halawa Heights, is bounded to the northwest and southwest by residential housing areas. Land to the north and east consists of the steeper slopes of the Koolau Range, which includes a state park and forest reserve lands. The BPA comprises a heavily vegetated area of approximately 11 acres with moderately steep terrain located north of the Smith Field Helipad in the northeastern portion of Camp H.M. Smith.		Draft Remedial Investigation Report (Summer 2024).

ACRONYMS:

ACITOITING	
AMC	AIR MOBILITY COMMAND
AOC	AREA OF CONCERN
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENES
COC	CHEMICAL OF CONCERN
COPC	CHEMICAL OF POTENTIAL CONCERN
EHMP	ENVIRONMANTAL HAZARD MANAGEMENT PLAN
EPA	U.S. ENVIRONMENTAL PROTECTION AGENCY
FISC	FLEET INDUSTRIAL SUPPLY CENTER
FS	FEASIBILITY STUDY
GSA	GEOGRAPHIC STUDY AREA
HDOH	HAWAII DEPARTMENT OF HEALTH
IA	INDOOR AIR
IC	INSTITUTIONAL CONTROLS
ISCO	INSITU CHEMCIAL OXIDATION
JBPHH	JOINT BASE PEARL HARBOR-HICKAM
LNAPL	LIGHT NON-AQUEOUS PHASE LIQUID
LTM	LONG-TERM MONITORING
LUC	LAND USE CONTROL
NAVFAC HI	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND HAWAII
NFA	NO FURTHER ACTION
NPL	NATIONAL PRIORITITES LIST
NTCRA	NON-TIME CRITICAL REMOVAL ACTION
OSC	OAHU SUGAR COMPANY
PAH	POLYNUCLEAR AROMATIC HYDROCARBON

PCB	POLYCHLORINATED BIPHENYL
PCE	TETRACHLOROETHYLENE
PCFA	PEARL CITY FUEL ANNEX
PHNC	PEARL HARBOR NAVAL COMPLEX
POL	PETROLEUM, OILS AND LUBRICANTS
PP	PROPOSED PLAN
PWC	PUBLIC WORKS CENTER
RAA	REMEDIAL ACTION AREA
RACR	REMEDIAL ACTION COMPLETION REPORT
RAO	REMEDIAL ACTION OPERATIONS
RAWP	REMEDIAL ACTION WORK PLAN
RI	REMEDIAL INVESTIGATION
ROD	RECORD OF DECISION
RVR	REMEDIATION VERIFICATION REPORT
SI	SITE INSPECTION
SVE	SOIL VAPOR EXTRACTION
SVOC	SEMI-VOLATILE ORGANIC COMPOUND
TCRA	TIME CRITICAL REMOVAL ACTION
TS	TREATABILITY STUDY
TSCA	TOXIC SUBSTANCES CONTROL ACT
TPH	TOTAL PETROLEUM HYDROCARBONS
UST	UNDERGROUND STORAGE TANK
VOC	VOLATILE ORGANIC COMPOUND
WP	WORK PLAN

Pearl Harbor-Hickam-Kalaeloa Restoration Advisory Board (RAB) Distribution List

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ENVIRONMENTAL CONCERNS SURVEY

Take the Survey: Please complete the Navy's 20-question Environmental Concerns Survey. The survey will be open from June 26, 2024 to November 30, 2024. It is anonymous and may take up to 20 minutes depending upon your level of engagement. This survey will help the Navy understand your level of awareness and concerns about Environmental Restoration sites at Joint Base Pearl Harbor-Hickam. The results of the survey will be used to inform the development of the Navy's Environmental Restoration Program, Community Involvement Plan that will be made available to the public. This plan lays out information on the sites and helps the community understand how they can stay informed and involved in the cleanup process. If you have questions concerning this survey email NFHI_PAO_DL @us.navy.mil. To take the survey go to: https://usnavy.gov1.qualtrics.com/jfe/form/SV_81RjA47PujQ3m18



What are PFAS?

- Per- and Polyfluoroalkyl Substances
- Family of thousands of manufactured chemicals
- Widely used since 1950s in many commercial and household products, such as:



Aqueous Film Forming Foam (AFFF – firefighting foam)



Personal care products



Stain-resistant carpet & fabrics



Nonstick cookware



Water-resistant fabrics



Food packaging

PFAS in the Environment

- Very stable substances they don't break down easily and last a long time in the environment
- Now found in the environment around the world (in air, water, soil, animals, plants, as well as in humans)
- Past releases on Department of Defense Installations are being addressed under the Environmental Restoration Program

Exposure and Health Effects

- PFAS may be present in drinking water, food, indoor dust, some consumer products, and workplaces
- Most non-occupational exposures occur by drinking water or eating food that contains PFAS
- Exposure is minor through skin contact when bathing, showering, or swimming
- Scientists are still learning about how exposure to PFAS might affect people's health
- For more information visit the Centers for Disease Control/Agency for Toxic Substances
 Disease Registry webpage "PFAS and Your Health" at
 https://www.atsdr.cdc.gov/pfas/index.html

What are PFOA and PFOS?

- PFOA perfluorooctanoic acid
- PFOS perfluorooctane sulfonic acid
- · Two of the most widely used and studied PFAS
- US EPA has issued Health Advisories and Maximum Contaminant Levels in drinking water for these two PFAS and select others
 - Link to Health Advisories https://www.epa.gov/sdwa/drinking-water-health-advisories-has#published
 - Link to MCLs https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas