

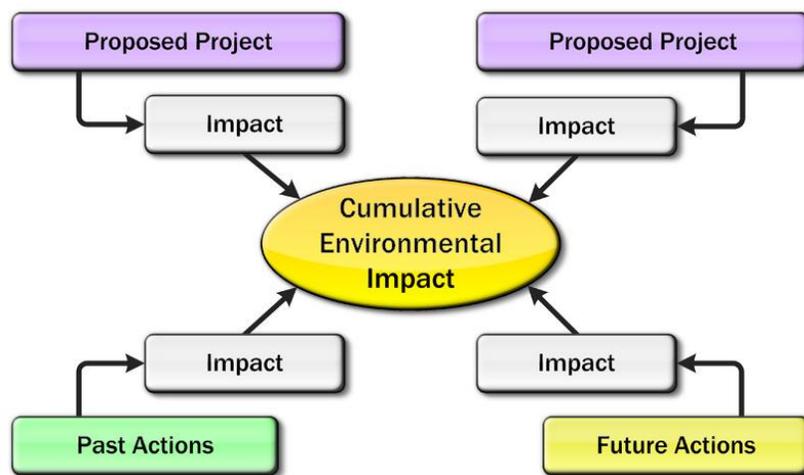
Pōhakuloa Training Area (PTA) Draft Programmatic EIS

Cumulative Effects Impact Assessment

The Army considered past, present, and reasonably foreseeable future projects on Hawai'i Island as part of the cumulative effects impact analysis for this Draft Programmatic EIS. The Army identified these projects through the review of: (1) recent NEPA documentation (Federal projects and federally funded State projects); (2) the State Implementation Plan; (3) military training requirements at PTA (all Services); (4) comments received during the public scoping period; (5) internet research; and (6) projects proposed in this Programmatic EIS that cover the next 10 years. The Army further reviewed the short- and long-term impacts each individual project was projected to have to the environment over time based on available data. The Army considered how each project could impact the natural and human environment in relation to all projects proposed in this Programmatic EIS. Even though some projects may not individually cause serious environmental impacts, when combined with the proposed projects in this EIS, or other State, Federal/Military projects occurring nearby and within the same time frame, the environmental impacts may become more severe.

For example, noise levels at the PTA Cantonment Area are low due to Troop deployments overseas and because the area is relatively secluded from large communities. However, noise there is anticipated to increase incrementally as more commuters begin to travel along the improved Saddle Road; as more Soldiers begin to redeploy from Iraq and Afghanistan and recommence their semi-annual training at PTA (not beyond historic levels); and when construction begins within the Cantonment Area. Individually, these actions may only contribute to temporary noise increases, but when taken together over a longer time period, these actions may have a more serious noise impact at and around the PTA Cantonment Area.

The table below lists project information for projects the Army considered when preparing the cumulative effects impact analysis. Section 5.2.1 of the Draft Programmatic EIS presents more descriptive information on each listed project. If you have questions or comments, please fill out a comment form provided to you at the Public Hearing or found online at www.garrison.hawaii.army.mil/PTAPEIS.



Projects on Hawai'i Island implemented in the Past, Present, and Reasonably Foreseeable Future

Project Name	Location	Sponsor	Description	Completion (Yr.)
Puainako Street Widening and Extension project	Hilo, Hawai'i Island	Federal Highways Administration (FHA) & State of Hawai'i Department of Transportation (DOT)	Widened 1.5-mile long section between Kilauea Avenue and Komohana Street, Puainako Street from two to four lanes with dual sidewalks and bicycle lanes.	2004
Outrigger Telescopes Project	Mauna Kea, Hawai'i Island	National Aeronautics and Space Administration (NASA)	Construction and operation of six outrigger telescopes in the W. M. Keck Observatory site at the Mauna Kea Summit.	2006 (NASA funding withdrawn)
Undersea Warfare Exercise	Hawai'i Island	Navy	Conducted exercise by the U.S. Navy's Carrier and Expeditionary Strike Groups while in transit from the west coast of the U.S. to the western Pacific Ocean.	2007
Deepening of the Kawaihae Deep Draft Harbor	Kawaihae Harbor, Hawai'i Island	State of Hawai'i	Deepened harbor to allow for increased drafts.	2008
Mock Airfield	PTA, Hawai'i Island	Navy	Proposed construction of a mock airfield at the PTA impact area; install and operate technology to aid in simulated training exercises.	2010
Permanent Stationing of the 2/25 th Stryker Brigade Combat Team (SBCT)	Hawai'i Island	Army	Transformation of the 2/25 th (L) Brigade Combat Team (BCT) to a SBCT involving use of additional tactical vehicles, modification of training infrastructure at PTA, and acquisition of the Ke'āmuku Maneuver Area (KMA).	Ongoing
Development and Use of Military Training Facilities on PTA	PTA, Hawai'i Island	U.S. Marine Corps (USMC)	Development of training facilities at PTA, including a Military Operations in Urban Terrain (MOUT) facility, Convoy Live Fire (CLF) range, enhancement of three forward operating base sites; and construct a live-fire grenade/Shoothouse facility.	Ongoing
Draft Zero Waste Implementation Plan	Hawai'i Island	County of Hawai'i Department of Environmental Management, Solid Waste Division & Recycling Section	Initiative to reduce the County's ecological footprint and divert resources from the landfill for recovery and reuse.	Ongoing
Current Army use of PTA	Hawai'i Island	Army	Description of Army activities is found in Section 1.3.1.1	Ongoing
Current USMC use of PTA	Hawai'i Island	USMC	Description of USMC activities is found in Section 1.3.1.2	Ongoing
Rim of the Pacific Exercises and current Navy use of PTA	Hawai'i Island	Navy, Joint Forces	Description of Navy activities is found in Section 1.3.1.3	Ongoing
Current Air Force use of PTA	Hawai'i Island	Air Force	Description of Air Force activities is found in Section 1.3.1.4	Ongoing
Six-year Highways Modernization Plan	Hawai'i Island	State of Hawai'i DOT	Highway Modernization Plan including 27 projects on Hawai'i Island to increase highway capacity, improve safety, replace bridges, stabilize rock fall and slope areas, protect shorelines, and preserve pavement.	Announced 2009; ongoing
Hawai'i-Southern California Training and Testing (HSTT) EIS / Overseas EIS (OEIS)	Hawai'i Island, Hawai'i Range Complex; select Navy pier side locations	Navy	EIS / OEIS to evaluate the potential environment affects associated with military readiness training and research, development, testing, and evaluation (RDT&E) activities conducted within the HSTT study area.	Ongoing
Training and Evaluation Activities in the Hawai'i Range Complex (HRC)	Pacific Region	Navy	Navy is currently conducting RDT&E activities in the HRC on new technologies including mid-frequency (MFA) and high-frequency (HFA) sonar.	Ongoing
Paving Mauna Kea Access Road	Hale Pohaku, Hawai'i Island	State of Hawai'i DOT	Proposed paving of the remaining dirt portions of the Mauna Kea access road.	TBD
'Āina Mauna Legacy Program	Hawai'i Island	Department of Hawaiian Homelands (DHHL)	Homesteading program established to provide economic self-sufficiency of Native Hawaiians through the provision of land granted by the DHHL within the 'Āina Mauna ecosystem (upper region of mountain lands that surround and include Mauna Kea).	TBD

Project Name	Location	Sponsor	Description	Completion (Yr.)
High-Altitude Mountainous Environmental Training (HAMET)	Hawai'i Island (PTA, Mauna Loa, and Mauna Kea)	Army	The Army prepared an Environmental Assessment (EA) for the 25 th ID Combat Aviation Brigade (CAB), stationed on Oahu, proposed training of helicopter pilots and crews for high-altitude (mountainous) missions in preparation for deployment to Afghanistan, and to satisfy compulsory aviation training doctrine.	2011
Panoramic Survey Telescope & Rapid Response System (Pan-STARRS) – PS4 Telescope Suite	Area A, Hawai'i Island	University of Hawai'i's Institute of Astronomy	Replace existing UH 2.2 m telescope in Area A with four 1.8 m telescopes in a single enclosure to enable remote and/or robotic operation.	2012 (Pending)
Basing of the MV-22 and H-1 Aircraft in Support of III Marine Expeditionary Force Elements in Hawai'i	Oahu and Hawai'i	Navy, USMC	The Navy and USMC are preparing an EIS for the basing and operation of MV-22 Osprey aircraft and H-1 Cobra and Huey attack helicopters in support of III Marine Expeditionary Force elements stationed in Hawai'i.	2012
Saddle Road Realignment	Hilo/Kona, Hawai'i Island	Army	Project to straighten, repave, and separate military training from motorists.	2012
Former Waikoloa Maneuver area and Nansay sites	Waikoloa, Hawai'i Island	Army	Munitions and Explosives of Concern (MEC)/Unexploded Ordnance (UXO) clearance on the former Waikoloa Maneuver area.	2015
Caltech Submillimeter Observatory Decommission	Area C of Mauna Kea, Hawai'i Island	Caltech	Decommissioning and removal of Caltech's Submillimeter Observatory.	2018
Range Maintenance Facility	PTA Cantonment Area, Hawai'i Island	Army	Proposed construction of a consolidated range maintenance complex on a previously developed site in the PTA Cantonment Area.	2015
PTA Test Well	PTA Cantonment Area, Hawai'i Island	Army University of Hawai'i	The Army and University of Hawai'i are currently preparing an EA for public review related to drilling of a proposed test well (at a depth of 47 m or 1,500 ft) to determine the existence of a potable water source beneath PTA.	2015
PTA Production Well	PTA Cantonment Area, Hawai'i Island	Army	Proposed deep water well and construction of a water distribution system that would extend throughout the PTA Cantonment Area (dependent upon success of test well).	2016
Packaged Sewer System	PTA Cantonment Area, Hawai'i Island	Army	Proposed sewer system at PTA (dependent upon production well) to provide an advanced level of treatment of sewage along with a collection and discharge system for Cantonment Area effluent.	2017
Storm Drainage System	PTA Cantonment Area, Hawai'i Island	Army	Proposed construction of a Cantonment Area-wide storm collection/drainage system (dependent upon production well).	2017
Communications System	PTA, Hawai'i Island	Army	Proposed construction of an installation-wide communication system at PTA.	2018
Bradshaw Army Airfield (BAAF) Runway Realignment	PTA Cantonment Area, Hawai'i Island	USMC	Proposed realignment and extension of the runway at BAAF, including construction of supporting infrastructure.	2018
Rotary Wing Apron and Aircraft Maintenance Facility	PTA Cantonment Area, Hawai'i Island	USMC, Army	Proposed construction at BAAF to enhance PTA's capability to provide air combat support and maintenance capability to aviation assets.	2018
Military Police (MP) Station	PTA Cantonment Area, Hawai'i Island	Army	Proposed relocation of the MP station at PTA to the installation main gate to be compliant with military regulation.	2018
Troop Issue Subsistence Activity (TISA)	PTA Cantonment Area, Hawai'i Island	Army	Proposed relocation of the existing TISA at PTA to the proposed industrial area of the installation.	2018
Dining Facility (DFAC)	PTA Cantonment Area, Hawai'i Island	Army	Proposed relocation and construction of a DFAC at PTA that would effectively consolidate the three dining facilities located at the installation.	2018

Project Name	Location	Sponsor	Description	Completion (Yr.)
Battalion Billets	PTA Cantonment Area, Hawai'i Island	Army	Proposed construction of up to 37 single story concrete masonry units (CMU) (buildings) to temporarily house up to a battalion of Soldiers training at PTA replacing many of the existing and dilapidated Quonset Huts in the Cantonment Area.	2019
Fire Station	PTA Cantonment Area, Hawai'i Island	Army	Proposed construction of a fire station at BAAF, to serve as a first response / emergency response facility and Aircraft Rescue Fire Fighting Fire Station.	2019
Physical Fitness Center	PTA Cantonment Area, Hawai'i Island	Army	Proposed construction of a small physical fitness center of standard design, for up to a 1,000 person capacity.	2020
Multipurpose Storage Facility	PTA Cantonment Area, Hawai'i Island	USMC	Proposed construction of a permanent storage facility at PTA to gain efficiencies in meeting semi-annual training requirements at the installation.	2020
Department of Public Works (DPW) Maintenance Shop	PTA Cantonment Area, Hawai'i Island	Army	Proposed construction of a DPW maintenance shop within the PTA Cantonment Area to provide regular upkeep and repair of non-tactical vehicle and equipment assets that are used for daily operations.	2022
Directorate of Logistics (DOL) Base Yard	PTA Cantonment Area, Hawai'i Island		Proposed construction of a DOL Base Yard at the PTA Cantonment Area, which is analogous to a parking and storage area for military equipment and vehicles.	2022
Urban Close Air Support (UCAS) Range	PTA, Hawai'i Island	USMC	Proposed construction of an UCAS range, located adjacent to the recently constructed Navy Mock Runway, in the southern portion of the PTA impact area to aid in training exercises for USMC aviators.	TBD