

**SECTION 1**  
**Introduction**

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#### **I. United States Army Garrison Hawaii (USAG-HI)**

The mission of USAG-HI is supporting each Warrior, Family and Community with sustainable services, ensuring power projection readiness from Hawaii with a vision of having the most innovative, customer-focused garrison in the Army where we ensure our supported units' mission accomplishment.

There are approximately 90,000 military personnel, military family/dependents, civilians and contractors living and working on these installations. The total acreage within the six installation boundaries is approximately 13,635 acres however only a portion is actually developed urban area and is predominately active range training areas. Maps of the installation boundaries and with discharge areas can be found in **INTRO Appendix A**.

**Aliamanu Military Reservation (AMR)** Honolulu, Oahu, Hawaii- is located approximately 3 miles NW of Fort Shafter, inside Aliamanu crater, on the island of Oahu and is predominately military family housing. AMR consists of approximately 520 acres. The majority of family housing within the crater drains into a Y-shaped storm drain channel, which connects to a tunnel through the south of the military reservation. Storm water flows through the tunnel down the slopes of Aliamanu Crater and into Salt Lake. The northeast portion of AMR is outside the crater and the area drains north towards Halawa Stream.

**Fort Shafter (FS)** Honolulu, Oahu, Hawaii is located approximately 1 mile north of Keehi Lagoon on the island of Oahu and serves as the headquarters for US Army Pacific Command consists of 577 acres. All of FS and FS Flats drain into Kahauiki Stream and tributaries of Moanalua Stream, which pass through the installation and eventually to Keehi Lagoon.

**Helemano Military Reservation (HMR)** Wahiawa, Oahu, Hawaii - is located in the center of the island of Oahu between the Koolau and Waianae mountain ranges and predominately family housing. HMR consists of approximately 282 acres. The northern portion of HMR drains into tributaries of Paukauila Stream. However, the majority of the HMR area drains into a vegetated retention basin on the southwest corner of the installation where storm water infiltrates and evaporates.

**Schofield Barracks (SB)** Wahiawa, Oahu, Hawaii –is located in the center of the island of Oahu between the Koolau and Waianae mountain ranges and is home to the 25<sup>th</sup> Infantry Division. SB consists of 11,534 acres with ranges but the cantonment area for SB is only 1,849 acres. The majority of SB drains into Kaukonahua Stream. Kaukonahua Stream flows northward through the towns of Waialua and Haleiwa and eventually merges with Poamoho Stream. The streams turn into Kiikii Stream and drain into Waialua Bay. The southwest corner of SB and its southern property line drains into tributaries of

Waikele Stream. Waikele Stream flows southward through the towns of Mililani and Waipahu and eventually drains into the West Loch of Pearl Harbor.

**Tripler Army Medical Center (TAMC)** Oahu, Hawaii – is located approximately .25 miles from Salt Lake on the island of Oahu. TAMC consists of approximately 359 acres. The TAMC storm drains are located to the north, south and west of the installation boundaries. The western portion of TAMC eventually connects to the City and County of Honolulu storm drain system. The northern and southern portions of TAMC drain to tributaries of Moanalua Stream.

**Wheeler Army Airfield (WAAF)** Wahiawa, Oahu, Hawaii - is located in the center of the island of Oahu between the Koolau and Waianae mountain ranges and is home to the 25<sup>th</sup> Aviation Brigade. WAAF consists of 1,764 acres. The majority of this installation drains into Waikele stream. Waikele stream flows southward through the towns of Mililani and Waipahu and eventually drains into the West Loch of Pearl Harbor.

## **II. Municipal Separate Storm Sewer System (MS4)**

The United States Army Garrison Hawaii (USAG-HI) owns a small Municipal Separate Storm Sewer System (MS4) on the island of Oahu for all its facilities. The MS4 is a conveyance system that is designed or used for collecting or conveying storm water discharges into water of the U.S or State. The collection\conveyance system includes roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, storm drains, etc. The MS4 transports storm water runoff that typically contains debris, chemicals, sediments or other pollutants to local water bodies that could adversely affect water quality.

## **III. NPDES Permit**

The U.S. Environmental Protection Agency's (EPA) Storm Water Program Phase II Rule, under the Clean Water Act (CWA) requires that all small MS4 owners obtain National Pollutant Discharge Elimination System (NPDES) permit coverage to address water quality concerns. On April 7<sup>th</sup> 2014 the State of Hawaii Department of Health (HDOH) issued an authorization to discharge **NPDES Permit Number HI S000090 (INTRO Appendix B)** to USAG-HI which expires on **March 6, 2019**. All discharges must be in compliance with the Clean Water Act, as amended (33 U.S.C. §1251 et.seq.), Title 40 of the Code of Federal Regulations (CFR), Hawaii Revised Statutes (HRS) Chapter 342D, Hawaii Administrative Rules (HAR) Chapters 11-54 and 11-55 and the conditions of the NPDES permit.

## **IV. Storm Water Management Plan (SWMP)**

The intent of the NPDES permit is for USAG-HI to develop, achieve and implement a timely, comprehensive, cost-effective Storm Water Management Plan (SWMP) to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP), consistent with Section 402(p)(3)(B) of the CWA, from the USAG-HI's MS4 to State waters in and around the Island of Oahu, Hawaii (*Part B.3*).

USAG-HI's SWMP is a manual that describes the potential sources of storm water pollution, the storm water control measures and Best Management Practices (BMPs) that will be used to reduce or eliminate pollutants in storm water discharges and identifies the procedures required to comply with the NPDES permit. All personnel on USAG-HI property in the MS4 coverage area or affected area must comply with the terms and conditions of the NPDES permit and SWMP. The Directorate of Public Works (DPW), which is under the Command of the USAG-HI, is responsible for the development and management of the SWMP.

The primary way of controlling and treating contaminated storm water runoff is by the implementation BMPs. The DPW is responsible to develop, improve, implement BMPs and enforce the SWMP. The SWMP is designed to address the requirements of NPDES permit # HI S000090 and reduce to the MEP the discharge of pollutants to and from the USAG-H's MS4 to protect water quality and to satisfy the appropriate the water quality requirements of the Clean Water Act using each of the following SWMP components (*Part D.1.a - Part D.1.g*):

- Public Education and Outreach (*Part D.1.a*)
- Public Participation and Involvement (*Part D.1.b*)
- Illicit Discharge Detection and Elimination (*Part D.1.c*)
- Construction Site Runoff Control (*Part D.1.d*)
- Post-Construction Runoff Control (*Part D.1.e*)
- Pollution Prevention and Good Housekeeping (*Part D.1.f*)
- Industrial and Commercial Activities Discharge Management Program (*Part D.1.g*)

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Each SWMP component as dictated by the NPDES permit Part D.1.a - Part D.1.g, includes:

- The BMP with a underlying rationale that will be implemented for each component
- The measurable goals for each BMP including the underlying rationale
- A timeline for implementation of each measurable goal for each BMP including the interim milestones and frequency to aid in determining the level of effort and effectiveness of each program component,
- The name or position title of the person(s) responsible for implementation or coordination of each program component,
- The legal authority that provides the means to enforce the SWMP and
- A monitoring program to determine the effectiveness of each BMP and the overall effectiveness of the storm water program

The SWMP is organized into sections based on program components and other Parts of the NPDES permit requirements. Each section has its own appendix with relevant plans, forms, checklists and reference material. The sections are:

- Section 1. Introduction
- Section 2. Public Education / Outreach / Involvement
- Section 3. Illicit Discharge Detection and Elimination Program
- Section 4. Construction Site Runoff Control
- Section 5. Post-Construction Storm Water Management Program
- Section 6. Pollution Prevention / Good Housekeeping
  - Debris Control BMP Program
  - Chemical Applications BMP Program
  - Erosion Control BMP Program
  - Maintenance Activities BMP Program
- Section 7. Industrial and Commercial Activities Discharge Management Program

Electronic copies of the SWMP and associated plans can be found on the USAG-HI Sustainability and Environmental website at <http://www.garrison.hawaii.army.mil/sustainability/CleanWater.aspx>.

Hardcopies of the permit and all other related materials and the SWMP with all subsequent revisions, will be held and maintained by the Department of Public Works, Environmental Division, Wheeler Army Airfield, building 105, 3<sup>rd</sup> Floor. Annual Reports discussing the compliance status and program effectiveness of the SWMP will be submitted to the HDOH and the EPA by Dec 31<sup>st</sup> of each year. For more information on the USAG-HI storm water program contact the DPW ENV Clean Water Program Manager at (808) 656-3105.

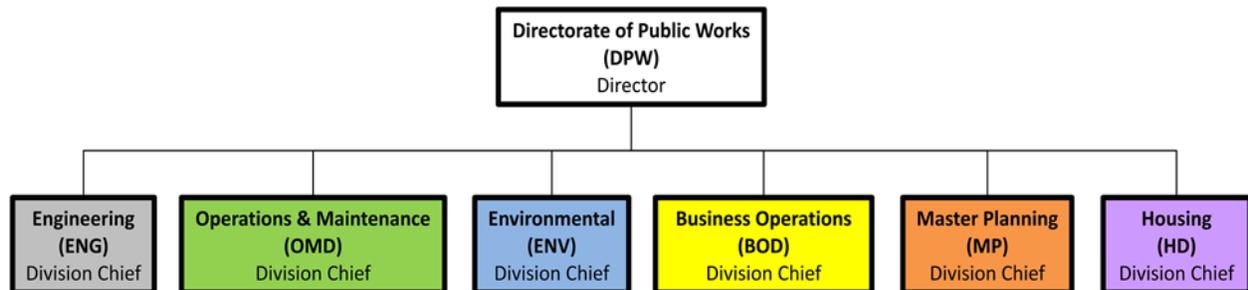
## V. Modifications to the Storm Water Management Plan

The USAG-HI DPW ENV staff will modify the SWMP when any discharge limitation or water quality standard established in HAR, Section 11-54-4 has been exceeded and will include BMPs and/or other measures to reduce the amount of pollutants from entering State waters. The SWMP will also be revised when conditions on the installations change, when more effective pollution controls are implemented and when storm sewer system modifications occur. System modifications include planned physical alterations or additions to the permitted MS4 and any existing outfalls newly identified over the permit term.

The USAG-HI DPW ENV staff will submit and justify all modifications (other than major modifications) made to the SWMP in the Annual Report in the year in which the change was made. Annual reports are submitted to the HDOH and EPA by Dec 31<sup>st</sup> of each year. The USAG-HI DPW will properly address all modifications, concerns, requests, and/or comments the HDOH or EPA may have within 30 days of receiving the comments. Major modifications that imply a significant reduction in scope and /or level of effort of the SWMP must be made for cause and in compliance with 40 CFR 122.62 and Part 124. A written report will be submitted to the HDOH for acceptance at least 30 calendar days prior to the initiation date of the proposed major modification.

## VI. Roles and Responsibilities

The USAG-HI is the overseeing command for the Directorate of Public Works (DPW) as well as multiple other directorates. DPW is responsible for managing and implementing the NPDES MS4 permit. DPW is composed of several divisions: Business Operations Division (BOD), Engineering (ENG) which comprise of Construction and Utilities branches, Environmental (ENV) which comprise of Compliance and Conservation branches, Master Planning (MP), Operations and Maintenance Division (OMD), and Housing (HD). The chart below is a simplified organizational chart of DPW where the color and departmental codes are used to identify the responsible divisions for executing specific responsibilities detailed in each section's *Procedures and Best Management Practices*. A complete detailed organizational chart can be found in the **INTRO Appendix C**.



The USAG-HI Housing Division is partnered with Island Palms Community (IPC) who is responsible for the operation and maintenance of the family housing on USAG-HI properties. IPC has their own and operations and maintenance program for housing areas and those details are not included in this document. Inquiries on IPC maintenance activities should be directed to the USAG-HI DPW Housing Division Director.