

Outfall Field Screening Plan

Under the requirements of the MS4 NPDES Permit issued to the Hawaii Department of Transportation, Highways Division (HDOT Highways) effective March 31, 2006, Part D.1.c.(1)(d), the HDOT Highways is required to develop and submit a drainage outfall field screening plan for observing the major (36 inch and larger) and minor outfalls for improper discharges.

BACKGROUND

This program is part of the Illicit Discharge and Elimination Program indicated in the Oahu Storm Water Management Program Plan (Oahu SWMP Plan).

Storm water flowing from any MS4 pipe or outfall has the potential to carry unintentional or intentional improper discharge. Therefore, HDOT Highways is required to periodically check these facilities to identify and ultimately eliminate the improper discharges detected as part of the permit.

DATABASE INVENTORIES

A GIS database of outfalls is being compiled and will be maintained as part of the HDOT Highways Asset Management System (AMS) program. A description of the process to develop the Oahu MS4 mapping is provided in Chapter 3 of the Oahu SWMP Plan. At this time, there are approximately 1,500 outfalls that have been mapped in the system.

INSPECTIONS

Inspections for outfall condition assessment have been conducted as part of the Erosion Control BMP program, specifically checking for erosion potential at the outfalls. Inspectors use a checklist to gather pertinent data about the outfall and look for possible pollutants during the initial inspection.

A list of prioritized outfalls was developed using the prioritized watershed areas indicated in the *Prioritized Area Plan for Industrial and Commercial Facility and Activity Inspections* (Prioritized Area Plan). The watershed priorities are taken from the Prioritized Area Plan because it accounts for the relative risk that an area, and therefore outfall, may contain discharge contaminated with pollutants. Table 1 shows the prioritized watersheds for inspection, which are divided into three categories:

1. Waste Load Allocations (WLA) - Watershed that are designated as WLAs in Chapter Eleven of the Oahu SWMP Plan.
2. High-Priority - Watersheds that are indicated as high-priority watersheds in Appendix A of the Consent Decree (Civil Action No. CV05-00636).

3. Other - Watersheds that do not fit in the WLA or High-Priority categories but contain industrial and commercial facilities and activities as well.

Within each category, the watersheds are arranged in the order of density of industrial and commercial facilities and activities.

Table 1
Prioritized Areas for Inspection

Area	Category
Ala Wai Watershed	WLA
Waimanalo Watershed	WLA
Kaelepulu Watershed	WLA
Kawa Watershed	WLA
Nuuanu Watershed	High-Priority
Kaukonahua Watershed	High-Priority
Halawa Watershed	High-Priority
Kapakahi Watershed	High-Priority
Waikele Watershed	High-Priority
Waimalu Watershed	High-Priority
Kalauao Watershed	High-Priority
Kawainui Watershed	High-Priority
Kalihi Watershed	High-Priority
Kaneohe Watershed	High-Priority
Waiawa Watershed	High-Priority
Aiea Watershed	High-Priority
Poamoho Watershed	High-Priority
Kiikii Watershed	High-Priority
Mailili Watershed	Other
Kapalama Watershed	Other
Kaupuni Watershed	Other
Manoa-Palolo Watershed	Other
Waialaenui Watershed	Other
Moanalua Watershed	Other
Kaloi Watershed	Other
Makaiwa Watershed	Other
Ulehawa Watershed	Other
Kamaileunu Watershed	Other
Wailele Watershed	Other
Honouliuli Watershed	Other
Kahawai Watershed	Other
Kaipapau Watershed	Other
Kamilonui Watershed	Other
Oio Watershed	Other
Paumalu Watershed	Other
Ahuimanu Watershed	Other

Table 1 (con't)
Prioritized Areas for Inspection

Area	Category
Kahaluu Watershed	Other
Kalunawaikaala Watershed	Other
Kamiloiki Watershed	Other
Kawela Watershed	Other
Keamanea Watershed	Other
Koko Crater Watershed	Other
Makaleha Watershed	Other
Makauao Watershed	Other
Makiki Watershed	Other
Pahole Watershed	Other
Punaluu Watershed	Other
Haiamoa Watershed	Other
Waimea Watershed	Other

The watersheds within the 'WLA' and 'High Priority' categories are considered priority for outfall screening. There are over 700 outfalls that have been located and field verified within these watersheds. These areas have been determined to be the most critical for continued screening and efforts will be concentrated on the outfalls in these watersheds.

Outfalls located in watersheds that are in the "Other" category or not listed because they do not contain industrial or commercial facilities or activities are considered non-priority. See Appendix A – Outfall Prioritized Listing.

Refinement of the actual number of outfalls located within all watersheds will continue throughout the permit period.

Priority outfalls will be screened once during each calendar year. Non-priority outfalls will be inspected once every three years.

Reporting of the outfall screening results will be done as part of the permit mid-year and end of the year reports submitted to the Hawaii Department of Health (HDOH).

PROCEDURES

The procedures for finding and reporting improper discharges from MS4 outfalls are the same as for several other aspects of the Oahu SWMP Plan program tasks. Data gathered from the outfall initial condition inspection or subsequent screening will be reviewed by consultant staff on a daily basis. Any reported improper discharge will be forwarded to the Drainage Discharge Unit for further action in accordance with the Illicit Discharge and Elimination Program indicated in the Oahu SWMP Plan and the enforcement document previously submitted to HDOH.