Storm Water Pollution Control Plan Kahului Baseyard



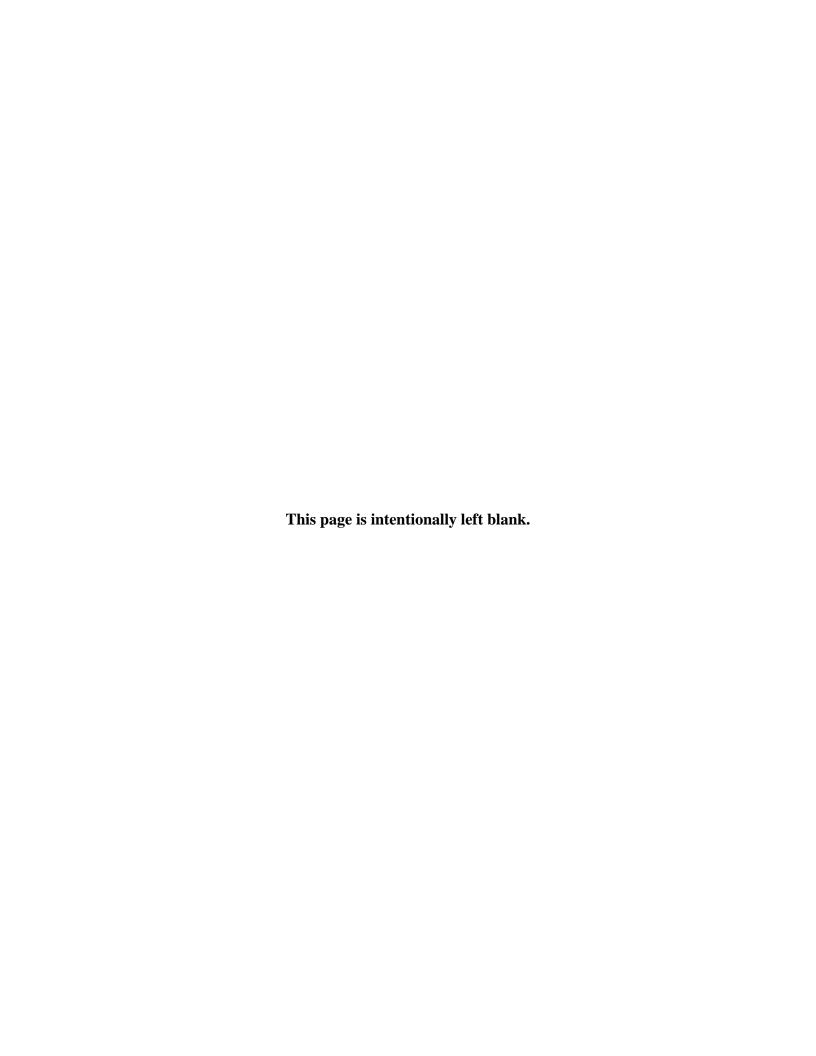
Prepared For:

State of Hawaiʻi Department of Transportation Maui Highways Division













Storm Water Pollution Control Plan Kahului Baseyard

Prepared For: State of Hawaiii Department of Transportation Highways

Division, Maui District

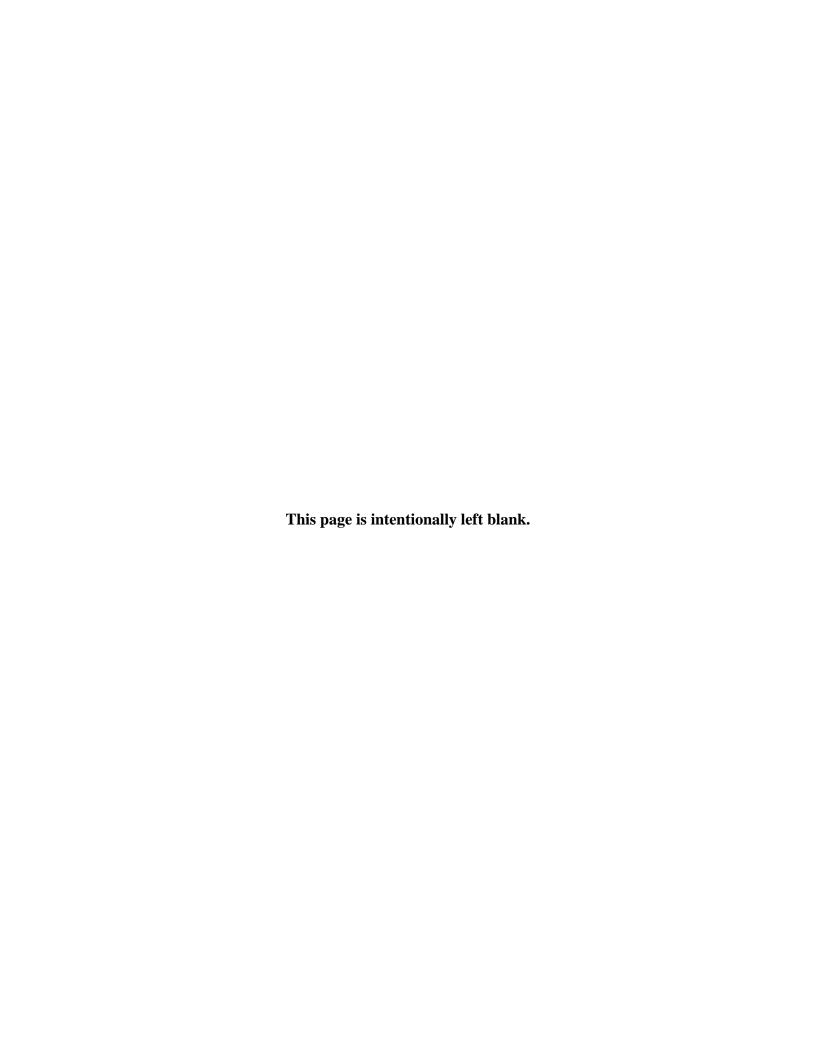
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In Association

With: Environet, Inc., Honolulu, Hawai'i



Approvals Page

Document:

Kahului Baseyard

Storm Water Pollution Control Plan

Date of Issue: June 2009

Date of Revision: October 2015

Date of 2nd Revision: November 2016

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Ferdinand Cajigal

District Engineer

Highways Division, Maui District

Hawai'i State Department of Transportation

Nov 30 2016

Date

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List of Acronyms

AST aboveground storage tank
BMP best management practice
CCH City and County of Honolulu
CFR Code of Federal Regulations
CLP EPA Contract Laboratory Program

COC chain of custody CWA Clean Water Act degree Celsius

DMR Discharge Monitoring Report

DOH State of Hawai'i Department of Health

DOT State of Hawai'i Department of Transportation

EC Emergency Coordinator

EPA U.S. Environmental Protection Agency

EPCRA Emergency Planning and Community Right-to-Know Act

FWPCA Federal Water Pollution Control Act

HAR Hawai'i Administrative Rules

HEER Hazard Evaluation and Emergency Response

 $\begin{array}{ll} \mbox{Highways} & \mbox{Highways Division} \\ \mbox{\mu g/L} & \mbox{micrograms per liter} \\ \mbox{mg/L} & \mbox{milligrams per liter} \\ \mbox{MSDS} & \mbox{material safety data sheet} \end{array}$

NA not applicable

NPDES National Pollutant Discharge Elimination System NOAA National Oceanic Atmospheric Administration

pH potential of hydrogen

PPE personal protective equipment
QA/QC quality assurance/quality control
SWMP Storm Water Management Program
SWPCP Storm Water Pollution Control Plan

U.S. United States

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Section 1 Introduction

In accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES), the State of Hawai'i Department of Transportation (DOT), Highways Division (Highways) is required to develop a site specific Storm Water Pollution Control Plan (SWPCP) for the Kahului Baseyard located at 650 Palapala Drive in Kahului, Maui, Hawai'i. This document presents procedures to minimize the discharge of pollutants in storm water runoff from the Kahului Baseyard and to maintain compliance with the NPDES permit conditions.

1.1 Background

In 1972, Congress passed legislation under the Federal Water Pollution Control Act (FWPCA) creating the NPDES, which set the direction of water pollution control in the United States (U.S.). The NPDES program established permitting requirements for anyone wishing to discharge pollutants to the waters of the U.S. The discharge permit sets limits on the composition of discharge and the concentration of pollutants in the discharge.

According to studies on water quality, storm water discharges were identified as being a significant source of water pollution. To address this problem, the FWPCA was amended by the Clean Water Act (CWA) of 1977 to restore and maintain the chemical, physical, and biological integrity of the nation's waters. The CWA provided the U.S. Environmental Protection Agency (EPA) with the authority to control point source storm water discharges that convey pollutants to the waters of the U.S., and also required each state to establish water quality standards for its surface waters. In 1987, the CWA was amended by the Water Quality Act which gave EPA authority to issue permits for storm water discharges associated with industrial activities, and discharges from large and medium municipal separate storm sewer systems. On November 16, 1990, the EPA issued regulations (contained in 40 Code of Federal Regulations (CFR) Parts 122, 123, and 124) establishing permit application requirements for these storm water discharges. The DOT Highways has facilities that engage in industrial activities, and therefore, is required to comply with the regulations covering storm water discharges.

The State of Hawai'i has been delegated NPDES permitting authority by the EPA. Through such delegation, the State of Hawai'i, Department of Health (DOH) is responsible for administering the NPDES program throughout Hawai'i in the same manner that the EPA's regional offices administer the program in states where permitting authority has not been delegated. On October 29, 1992, the DOH put rules into effect to implement the storm water program in the Hawai'i Administrative Rules (HAR) Title 11, Chapter 55, Water Pollution Control (Chapter 11-55), which includes NPDES permit requirements. HAR Title 11 Chapter 55 was revised and signed by Governor Linda Lingle on October 10, 2007 and the rules were effective October 22, 2007.

The NPDES program requires the DOT Highways to have a permit for discharge of storm water to State waters. This permit establishes discharge limitations, receiving water limitations, and specific provisions, including the requirement for the DOT Highways to develop and implement SWPCPs for its facilities with industrial activities.

The Notice of General Permit Coverage (NGPC) was issued on October 13, 2009 (Appendix G).

On January 27, 2015, an inspection of the Highways Kahului Baseyard was conducted by PG Environmental. Findings from the inspection documented numerous deficiencies in the Highways Kahului Baseyard's implementation and update of the SWPCP. A \$500 fine was levied for failure "to correctly install, implement, maintain, or repair site best management practices as called for in their storm water pollution control plan or best management practices plan or other plan." One of the requirements inherent in the violation is the revision of the SWPCP.

At the time of the inspection, plans were already being made to renovate the Kahului Baseyard. New fencing and repaving were the major physical parts of the renovation, but the staff seized the opportunity to implement the principles of Low Impact Development. Several French drains were installed and the amount of stormwater leaving the baseyard has been greatly reduced. These renovations are the reason the SWPCP is being revised.

1.2 Purpose

The primary objective of this SWPCP is to minimize the discharge of pollutants in storm water runoff from the Kahului Baseyard and to acquire a NPDES permit for discharge of storm water to State waters. This SWPCP was developed in accordance with the State's General Permit Authorizing Discharges of Storm Water Associated with Industrial Activities (HAR Chapter 11-55, Appendix B); as defined in 40 CFR §122.26(b)(14)(i) through §122.26(b)(14)(ix) and §122.26(b)(14)(xi). This SWPCP is designed to: (1) characterize the site; (2) identify potential pollutants at the site; (3) describe measures that shall be taken to prevent pollution of storm water discharge; (4) develop a storm water monitoring plan; and (5) implement and evaluate mitigation measures.

Section 2 Site Description

The Kahului Baseyard is located on the northern coast of Maui, at 650 Palapala Drive in Kahului. The baseyard is located approximately 0.75 mile southwest of the Kahului Airport (Figure 2-1). The baseyard consists of approximately 5.2 acres of land. The baseyard is bordered to the north by Mua Street, to the east by Kuleana Street, to the south by undeveloped land and Haleakalā Highway, and to the west by Palapala Drive. The baseyard includes an office building, maintenance office and shop, a repair shop, a vehicle and equipment wash shed, a truck storage shed, and a used oil storage area. Two fiberglass double walled aboveground storage tanks (ASTs) with 2,000 gallon capacities (one diesel and one gasoline) are currently in service and are located in the east portion of the site.

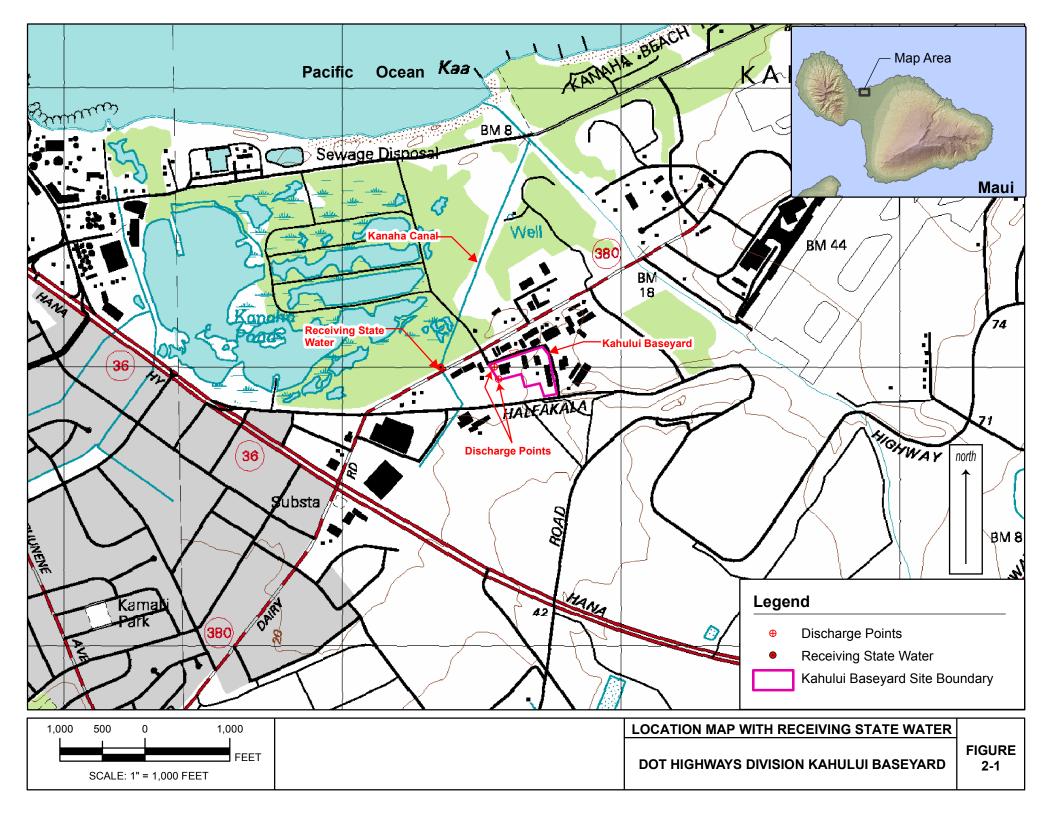
A site plan of the Kahului Baseyard is shown in Figure 2-2. The site plan in this version of the SWPCP reflects the site after a major renovation that implemented a principle of Low Impact Development by keeping the rainfall on site rather than creating runoff from the facility. The renovation consisted of new fencing, repaving, curbing around portions of the perimeter, and the installation of drywells and several French drains which will keep more stormwater on site.

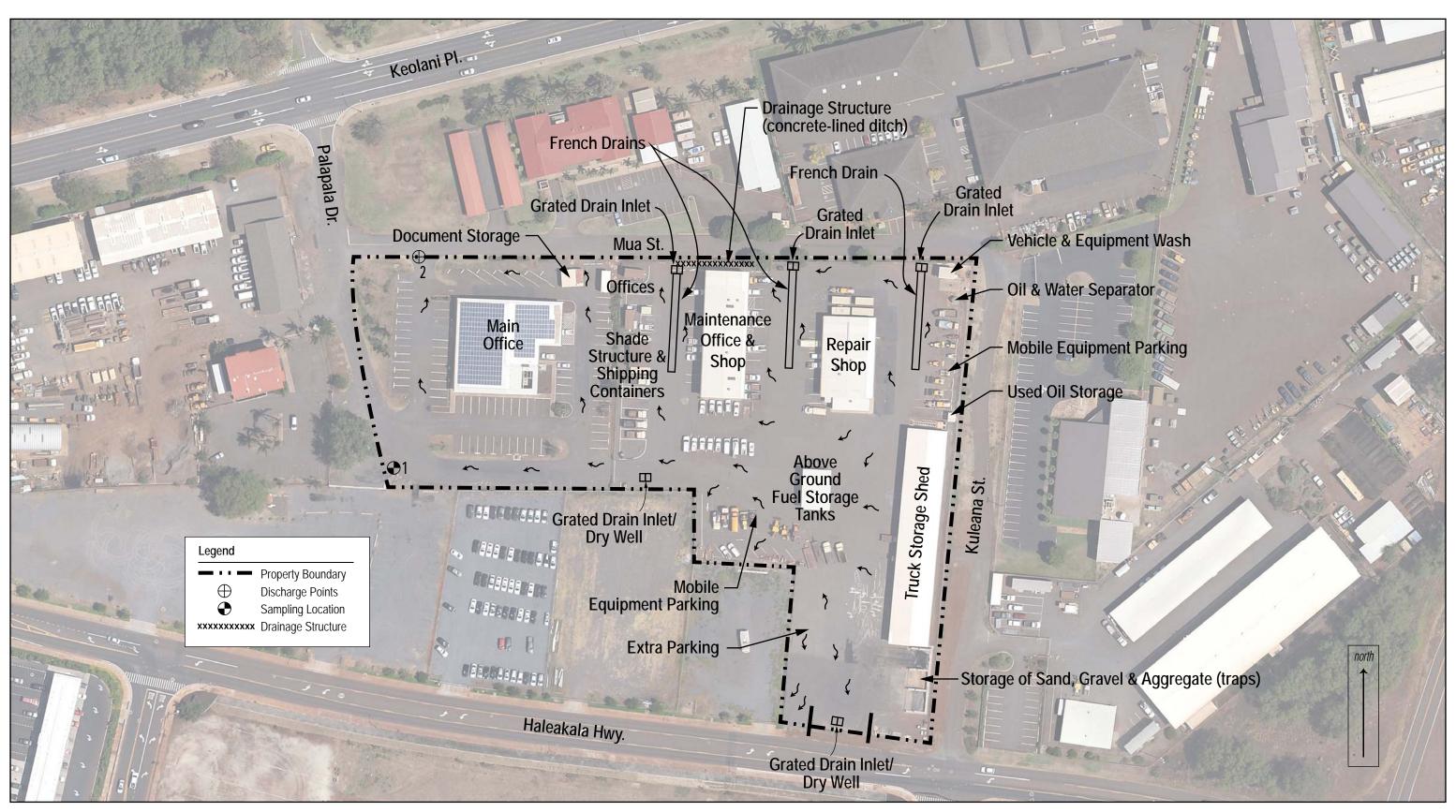
Facility Supervisor: Donald Smith

Facility Address: 650 Palapala Drive

Kahului, HI 96732

Telephone Number: (808) 873-3539





Site Plan

Figure 2-2 Kahului Baseyard DOT Highways Division Maui District

2.1 Facility Operations

The site is primarily used as a baseyard for DOT Highways maintenance operations. Activities conducted at the site include the following:

- vehicle parking;
- fueling of maintenance vehicles and equipment;
- washing of maintenance vehicles and equipment;
- loading and mixing of herbicides;
- storage of sand, gravel, asphalt, traffic signs, and building materials;
- service and storage of maintenance equipment; and
- storage of fuel, motor oil, hydraulic fluid, lubricant, solvents, herbicides, and small quantities of cleaning supplies.

Specifically, outdoor areas are used for vehicle parking, vehicle and equipment fueling, vehicle and equipment washing, loading and mixing of herbicides, and building material storage.

Vehicle parking is conducted in the asphalt paved areas of the site and drip pans are placed under construction vehicles.

Fueling of maintenance vehicles and equipment with diesel and gasoline fuel is conducted at ASTs located at the east portion of the site. The ASTs have a secondary containment sump and traffic bollards are installed around the ASTs. Spill response materials are located near the ASTs.

Washing of maintenance vehicles and equipment is conducted near the vehicle and equipment wash shed. The wash area is asphalt and concrete paved, and is uncovered. The area is curbed on three sides (north, east, and south sides) with the west side being uncurbed to allow vehicles and equipment into the wash area. Wash water flows into a sump located in the center of the wash area. The vehicle and equipment wash system is equipped with an underground oil/water separator. Processed water from the oil/water separator discharged into the sanitary sewer system.

Maui highway landscape areas are maintained with application of herbicides. Loading and mixing of herbicides are conducted at the wash rack and the mobile application trailers are stored indoors.

A stockpile of sand, gravel, and asphalt are stored in an aggregate storage area located in the south side of site near the truck storage shed. The area is asphalt paved without covering and consists of three concrete lined cells. Sediment booms are placed around the stockpiles to trap silt and sediment. The stockpiles containing material that can be wind-blown are covered with tarps.

Small engine landscape maintenance equipment is stored inside shipping containers west of the maintenance office and shop. Heavy equipment and vehicles are stored in the open storage areas at the east and south sides of the baseyard or in the truck storage shed. Some traffic signs, equipment batteries, and empty 55 gallon drums are also stored in the truck storage shed.

Service of maintenance vehicles and equipment is conducted in the repair shop. Servicing of maintenance vehicles and equipment is conducted by an onsite mechanic and includes all repairs and the use of solvents. The oil generated during the maintenance is collected into a pan placed under the vehicle maintenance track within the repair shop. A used oil AST with a capacity of 300 gallons is located in the used oil shed near the truck storage shed. Spill response materials are located within the repair shop and used oil AST.

Manufacture and repair of traffic signs is conducted in the metal shop located within the maintenance office and shop.

Herbicides are kept in a locked room within the maintenance office and shop. Other chemicals used and stored at the site include gasoline fuel in a 2,000 gallon AST, diesel in a 2,000 gallon AST, motor oil in several 55 gallon drums, hydraulic fluid in several 55 gallon drums, used oil in a 300 gallon AST, and small quantities of lubricants, solvents, paints, and cleaning agents. Small quantities of fuel, hydraulic fluid, lubricants, and solvents are stored inside flammable material storage cabinets located within the maintenance office and shop and repair shop.

Trash is temporarily stored in covered garbage bins distributed throughout the baseyard. Trash is disposed of by a private contractor on a regular basis.

2.2 Site Drainage

The baseyard is paved with asphalt and is mainly flat, with only slight changes in topography (Figure 2-3). Drainage from each area of the yard is calculated in Table 2-1.

The baseyard is separated into an east section and west section by a chain link fence with an open space for vehicular traffic. The east section includes the maintenance office and shop, the repair shop, the ASTs, the vehicle and equipment wash shed, the truck storage shed and the used oil storage area. The west section is mainly the office building and employee parking.

In 2015 and 2016, the baseyard was renovated which included mostly repaving and new fencing. French drains and dry wells were also installed during the renovation drastically reducing the amount of stormwater leaving the site. Around the perimeter of the site, curbing was installed and holes in existing curbing were filled. Three of the five discharge locations described in the previous SWPCP have been eliminated keeping more stormwater on site during normal rainfalls.

Only two locations remain after the renovation where stormwater would leave the site during normal rainfalls. These are designated Discharge Points 1 and 2. Stormwater from Discharge Point 1 flows onto Palapala Drive which flows onto Keolani Place. The storm drains empty into Kanaha Canal which flows northeast toward the Pacific Ocean.

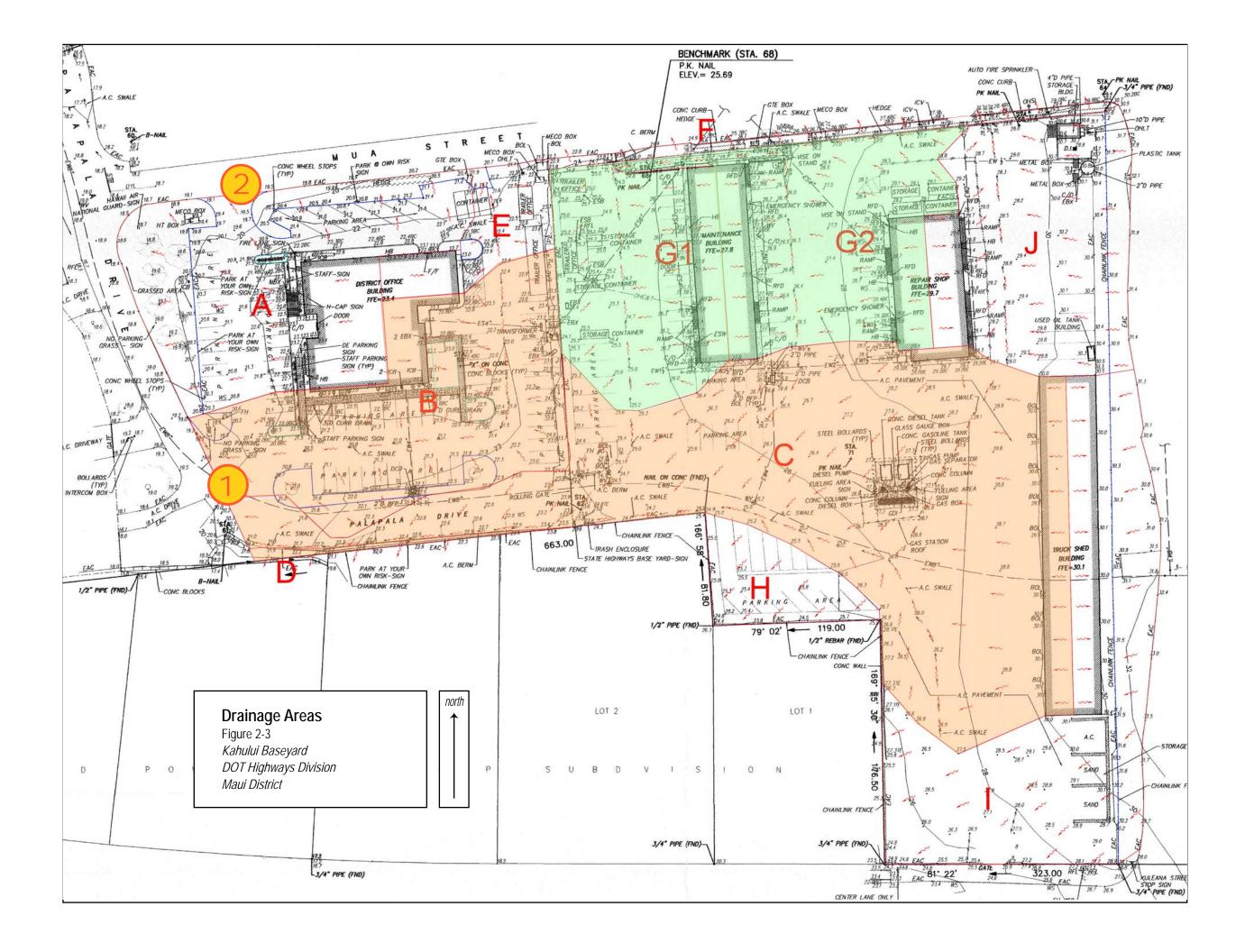
Discharge Point 1 collects flow from a large amount of pavement in the yard, including both employee and equipment parking areas and the fueling facility. Discharge Point 1 has been designated the sampling location as described in Section 5.

Stormwater from the northwestern corner of the yard used for parking flows onto Mua Street at a driveway designated Discharge Point 2. This water also flows to Kanaha Canal.

The storm water at the east section of the yard generally flows from south to north and is collected into one of three newly installed French drains. Stormwater from the southern portion of the yard flows south and into a newly constructed drywell by the back gate.

2.3 Climate

The Kahului Baseyard is located on the north shore of central Maui. The overall climate on Maui is characterized by mild temperatures, cool and persistent tradewinds, a rainy winter season from October through April, and a dry summer season from May through September. The highest mean annual rainfall occurs near the summit of Pu'u Kukui Mountain and exceeds 360 inches. Along the coastal areas of Maui near the site, mean annual rainfall is less than 20 inches.



SUMMARY OF RATIONAL METHOD CALCULATIONS

Source	د	-	Ι	G2	G1	п	т	D	C	8	Þ	Drainage Area
	0.56	0.76	0.15	0.55	0.44	0.06	0.14	0.02	1.61	0.69	0.67	Area (Acres)
1	0.83	0.74	0.90	0.90	0.90	0.30	0.84	0.90	0.90	0.84	0.73	C _{weighted}
2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	T _{c, design} (min)
ω	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1yr I (in/hr)
	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2yr I (in/hr)
	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	5yr I (in/hr)
	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	10yr I (in/hr)
	0.91	1.10	0.25	0.97	0.78	0.04	0.24	0.03	2.82	1.13	0.95	Q1 (cfs)
	1.22	1.48	0.34	1.30	1.04	0.05	0.32	0.05	3.77	1.51	1.28	Q2 (cfs)
	1.65	2.00	0.46	1.76	1.42	0.07	0.43	0.06	5.11	2.05	1.73	Q5 (cfs)
	1.99	2.41	0.56	2.12	1.70	0.08	0.52	0.08	6.15	2.46	2.08	Q10 (cfs)
	retained on site	- 1	1	_	- 2	Discharge Location						

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Table 2-1 Drainage Areas

FHWA HEC-22, Table 3-1, pg. 3-6, County of Maui Table 3 for Built-up Areas Based upon paved areas with short running lengths, used 10 minute Tc per HDOT design standards. NOAA Atlas 14 Point Precipitation Frequency Estimates.

Section 3 Potential Pollutants and Site Runoff

Potential pollutant activities/sources from the facility include small spills, leaks, or drips of gasoline, diesel, oils, lubricants, solvents, herbicides and cleaning agents associated with vehicle parking; fueling of maintenance equipment; service and storage of maintenance equipment; washing of vehicle and maintenance equipment; loading and mixing of herbicides; and storage of petroleum products, cleaning supplies and herbicides. These activities/sources have the potential to release pollutants offsite and ultimately into a surface water body.

3.1 Potential Pollutants

Potential pollutants derived from the activities conducted at the site include various petroleum products, herbicides, traces of heavy metals, sand, and solid waste debris.

A list of potential pollutant sources has been provided below:

- one 2,000 gallon capacity diesel AST;
- one 2,000 gallon capacity gasoline AST;
- several 55 gallon capacity motor oil drums in the repair shop;
- several 55 gallon capacity hydraulic fluid drums in the repair shop;
- one 300 gallon capacity used oil AST;
- maintenance equipment containing fuel;
- small quantities of petroleum products (gasoline, motor oil, hydraulic fluid), lubricants, solvents, paints, and cleaning products stored in either the original manufacturer's containers or in fuel containers with a five gallon capacity or less, and stored in the maintenance office and shop and repair shop;
- herbicides stored and loaded at the site;
- detergents from building and vehicle washing; and
- solid waste debris, gravel, sand, and asphalt stored on site.

3.2 Routine Runoff

Generally, routine runoff from the facility may consist of herbicides, sediment, dust, and silt that may have been deposited either by the rain, wind or from vehicular traffic. Herbicides, sediment, dust and silt may affect water quality parameters such as total suspended solids and turbidity. As is expected from areas with a baseyard and vehicular activity, the potential for minor amounts of petroleum products and herbicides to enter runoff exists. Because the site has now been renovated, stormwater from several areas with potential for containing contamination

have been redirected into French drains and drywells. Stormwater now stays on site rather than discharging into the surrounding environment.

3.3 Non-Routine Runoff

Non-routine runoff may be a result of spillage, leaks, fuel dispensing, or other emergency conditions (e.g., major equipment leaks). However, such incidents will be addressed immediately as described in the Spill Prevention and Response Plan (see Section 4.2).

Potential non-routine runoff may result from the following sources:

- fueling of vehicle or equipment;
- vehicle washing;
- facility washing;
- rubbish and litter;
- improper disposal of chemicals;
- chemical storage container failure;
- improper storage of chemicals (e.g., container deterioration, exposure to rain, no secondary containment);
- improper storage of raw materials;
- application and use of chemicals;
- major equipment leaks; and
- poor spill response management.

3.4 Historical Pollution Sources

There are no historical pollution sources identified for the site. Operations conducted at the site do not include the generation, use, or storage of hazardous chemicals that are listed in Section 313 of the Emergency Planning & Community Right-to-Know Act (EPCRA). Therefore, the site is not subject to the requirements of EPCRA.

Section 4 Pollution Control Program

The most cost-effective method to reduce or eliminate pollutants in storm water runoff is utilization of proper management practices, which promote pollution prevention. However, in cases where a release does occur, the implementation of sound spill response procedures can preclude discharge of chemical constituents to storm water and ultimately to surface water bodies. This section presents the best management practices (BMPs) that should be implemented at the Kahului Baseyard along with spill response procedures should a release occur.

4.1 Best Management Practices

By using proper management techniques and practices it is possible to improve control of the identified potential sources of pollutants and reduce the number of spills/releases to the storm water system. BMPs applicable to the Kahului Baseyard have been attached as Appendix A. The BMPs have been adapted from DOT Highway's December 2015 Storm Water Management Program (SWMP) Plan and the City and County of Honolulu (CCH), Department of Environmental Services, "Best Management Practices Manual for Construction Sites in Honolulu," May 1999.

The following table summarizes potential sources that may affect runoff and the BMPs to be utilized to minimize affected runoff from the Kahului Baseyard:

Table 4-1: Summary of Best Management Practices

Potential Sources		
of Affected Runoff	Potential Pollutants	BMP
Facility washing	asphalt mix, diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, traces of heavy metals (cadmium, chromium and lead), herbicides, soaps, and debris	A1: Housekeeping PracticesA4: Material Storage
Equipment washing and maintenance	diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, herbicides, traces of heavy metals (cadmium, chromium and lead), herbicides, soaps and debris	 A1: Housekeeping Practices A2: Vehicle and Equipment Washing, Maintenance and Repair
Major equipment leaks	diesel, gasoline, hydraulic fluid, oil and traces of heavy metals (cadmium, chromium and lead)	A1: Housekeeping PracticesA5: Spill Prevention and Response
Fueling of equipment	diesel, gasoline, hydraulic fluid, grease, oil, and traces of heavy metals (cadmium, chromium and lead)	A1: Housekeeping PracticesA3: Vehicle and Equipment Fueling
Improper storage of chemicals (e.g., container deterioration, exposure to rain, no secondary containment)	asphalt mix, diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, herbicides, and traces of heavy metals (cadmium, chromium and lead)	 A1: Housekeeping Practices A4: Material Storage A5: Spill Prevention and Response

Potential Sources of Affected Runoff	Potential Pollutants	BMP
Chemical storage container failure	diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, herbicides, and traces of heavy metals (cadmium, chromium and lead)	 A1: Housekeeping Practices A4: Material Storage A5: Spill Prevention and Response
Improper disposal of chemicals	diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, herbicides, and traces of heavy metals (cadmium, chromium and lead)	A1: Housekeeping PracticesA6: Hazardous Waste Management
Rubbish storage containers	debris	A1: Housekeeping Practices
Application and use of chemicals	grease, oil, solvents, lubricants, herbicides, and traces of heavy metals (cadmium, chromium and lead)	 A1: Housekeeping Practices A5: Spill Prevention and Response A7: Chemical Application

Notes:

A1 means Appendix A1

4.2 Spill Prevention and Response Plan

Spill prevention and control practices are developed to provide site-specific information as well as prevention controls to eliminate the release and spread of pollutants handled and/or stored on-site. Site-specific practices include:

- specification of material handling procedures and storage requirements;
- specification of proper equipment operation to minimize risk of spillage;
- specification of equipment inspection and maintenance to minimize failure and risk of spillage;
- implementation of proper spill response procedures (included in this SWPCP below);
- visual inspection of paved areas for spills and leaks on a timely basis;
- provide spill-response supplies and equipment near the fueling area and in areas where vehicle and equipment maintenance is performed; and
- prompt removal of any spills or leaks.

4.2.1 Safety Measures

Safety measures include those specific to environmental issues, such as spill prevention, and general safety practices that may lead to prevention of accidents that could result in a release. General safety measures include traffic safety, vehicle/equipment maintenance practices, and fueling practices.

Emergency contact information is provided in Table 4-2.

4.2.2 Responsible Personnel and Emergency Contact Procedures

The Facility Supervisor will be responsible for training all facility personnel on spill response procedures and the use of spill kit components. The responsible parties will implement the plan, and following a spill, evaluate whether the plan was successful or unsuccessful in responding and how it can be improved. Toxic releases are not expected at the facility; therefore, this plan will address only spills of material associated with the storage and routine maintenance of DOT-owned vehicles and equipment.

Table 4-2: Emergency Contact Information

Contact	Telephone Number
Emergency (Medical Assistance, Fire Department, Police	·
Department)	911
• If it is an emergency or life-threatening situation 911 should be called	911
first.	
Facility Supervisor/Contact	
The Facility Supervisor/Contact should be notified immediately of all	(808) 873-3539
spills, leaks and releases that occur at the site.	
DOT Highways District Supervisor	
The DOT District Supervisor should be notified immediately of all	(808) 873-3535
spills, leaks and releases that occur at the site so that they can assist in	(606) 673-3333
response and notify other entities, if required.	

4.2.3 Spill Containment and Remediation

Small spills of oil (less than 25 gallons), which are capable of being cleaned up within 72 hours and do not threaten ground or surface waters, will be cleaned up promptly using absorbent materials or other acceptable practices, without disrupting facility operations. Daily inspections of the facility will identify any small spills, which will be addressed immediately.

Any spill, leak or release of hazardous substances greater than their reportable quantity as defined in HAR Chapter 11-451-6 (e.g., any spill, leak or release of petroleum products greater than 25 gallons and any spill, leak or release of petroleum products less than 25 gallons that is not remedied or contained within 72 hours, or any sheen observed on surface waters) must be reported to the DOH Hazard Evaluation and Emergency Response (HEER) Office. This requirement is established in the *HAR 11-45*, *State Contingency Plan*.

In the event of a large or uncontrolled release, the Facility Supervisor shall act as the Emergency Coordinator (EC) until relieved by the appropriate DOT Highways personnel.

In the event of any spill, employees should follow the guidelines listed below and in the Spill Prevention and Response BMP (Appendix A5), where practicable.

Step 1: STOP WORK

- Shut down pumps and equipment and secure valves and work operations.
- Shut down any nearby propane/fuel/compressed gas tanks.
- Move away from the affected area.

Step 2: ASSESS THE SITUATION

- Check the scene for safety.
- Determine what happened and the hazards present.
- Determine the number of victims and their condition.

Step 3: CALL THE AUTHORITIES

- Call on duty site manager.
- If on duty site manager is not available, call 911 for emergency situations.
- Notify supervisor and alert others in the facility of the incident via:
 - voice;
 - hand-held radios: and/or
 - other effective means.

Step 4: CONTROL THE SCENE

- Keep non-essential employees away from the spill area.
- Evaluate the situation and decide whether to implement a "fight or flight" (stay and contain the hazard or evacuate for personal safety) response. This should be done by the EC or other appropriate DOT Highways personnel by gathering the following information, if it can be done safely.
 - your name, location, and how you may be reached;
 - location of the release;
 - type, quantity, and description of the release;
 - hazards of the release;
 - type of media affected (soil, asphalt, concrete, etc.);
 - rate of the release;
 - migratory direction of the release;
 - potential for fire or explosion;
 - potential for human exposure;
 - potential for migration to surface water (ocean, storm drains, etc.);
 - never subject yourself or other personnel to unreasonable risk of illness or injury; and
 - remove all injured persons from the area of danger and render first aid.
- If the decision is to "fight," personnel are to don the appropriate personal protective equipment (PPE).
- Eliminate all possible sources of ignition/detonation such as vehicle engines, welding and grinding operations, and smoking.

- Remove or isolate ignitable and incompatible materials from the area of the release if the spill is of a flammable substance.
- Locate, stop, and contain the source of the release by:
 - closing, checking, repairing, plugging valves, and
 - plugging and patching holes.
- Confine the release to prevent further migration by using methods from the following list.
 - diking and berming using sand, soil, or other inert material;
 - sealing storm drains with plastic and sandbags;
 - placing granular sorbent or absorbent pads and booms;
 - diverting the chemicals from entering drains, manholes, streams, etc.; and
 - implementing retention techniques.
- Call the facility spill response contractor for cleanup and removal of accumulated product resulting from the release. The contractor will remove spilled product and properly dispose of the material in accordance with applicable state and federal regulations.
- If the release is not readily and easily controlled, evacuation may be necessary.
- If the decision is the "flight" option, the EC or other appropriate DOT Highways personnel is to immediately alert and evacuate all personnel.
- Evacuate all personnel along the nearest evacuation route to the designated assembly area.
- Implement proper decontamination procedures on vehicles, affected media, PPE, and equipment.
- Package all used decontamination solution, disposable PPE, and affected media in U.S. DOT specified containers.
- Label, transport, and dispose of hazardous materials/waste in accordance with applicable government regulations.

Appendix B provides a Spill Response Documentation form that will be completed in accordance with Section 6.3 of this SWPCP.

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Section 5 Storm Water Monitoring Program

Periodic monitoring of storm water will enable the DOT Highways to make informed decisions regarding pollution prevention and control strategies at the site. Storm water monitoring should be conducted annually in accordance with the provisions of HAR 11-55 Appendix B; however, monitoring for this facility shall be conducted in accordance with the site-specific Storm Water Monitoring Plan. Samples of storm water runoff will be collected from a designated storm water monitoring site, as determined from site conditions, drainage maps, and site activities. The storm water monitoring site shall contain storm water that is representative of the overall storm water discharge of the site.

Discharge Point 1 has been designated the sampling point that is most representative of the overall storm water discharge on site (Figure 2-2). The site is located where cars exit the facility onto Palapala Drive. Prior to the renovation, the selected sampling site was on the east side of the facility but that stormwater has now been redirected to on-site drains to keep it from running off-site.

Table 5-2 presents the annual storm water monitoring parameters.

In addition to the collection of storm water samples for laboratory analysis, the storm water monitoring program also includes the collection of field data to assist in the determination of storm water quality at the site.

5.1 Representative Storm Event

Storm water sampling should only occur during representative storm events, which is defined as a rainfall that accumulates more than 0.1 inch of rain and occurs at least 72 hours after the previous measurable rainfall (greater than 0.1 inch) (HAR Chapter 11-55-01m).

The National Oceanic and Atmospheric Administration (NOAA), National Weather Service Forecast Office, Honolulu, Hawai'i (www.prh.noaa.gov/pr/hnl/) can be used to determine rainfall totals.

5.2 Sampling Equipment

The following is a list of sampling equipment that will be required for each storm water monitoring event:

- laboratory provided precleaned sample containers (Table 5-1);
- plastic bags, sample cooler, with ice or Blue Ice®;
- potential of hydrogen (pH) meter;
- rain gauge;
- filtration system;

- disposable nitrile gloves;
- marking pen and log book;
- paper towels; and
- first aid kit.

Table 5-1: Sample Containers

Boundary Containers Processed in a					
Parameter	Container	Preservative	Quantity ²	Time	
Biochemical Oxygen Demand (5-day) milligrams per liter (mg/L)	1-liter plastic	Cool 4 degrees Celsius (°C)		7 Days	
Chemical Oxygen Demand (mg/L)	1-liter plastic	Cool 4°C	Composite	7 Days	
Total Suspended Solids	1-liter plastic	Cool 4°C	4 grabs at 15 minute	7 Days	
Total Phosphorus	500-milliliter Poly	Sulfuric acid; Cool 4°C	intervals	28 Days	
Total Nitrogen	500-milliliter Poly	Sulfuric acid; Cool 4°C		28 Days	
Nitrate + Nitrite Nitrogen	250 milliliter Plastic	Sulfuric acid; Cool 4°C		28 Days	
Oil and Grease	1-liter glass amber	Hydrochloric acid; Cool 4°C	1 grab within 15 minutes	28 Days	
рН	None. pH will be determined in the field using a pH meter.	Not applicable (NA)	NA	NA	
Lead μg/L	1 liter amber glass bottle	Nitric Acid, Cool 4°		6 months	
Acenaphthene μg/L	1 liter amber glass bottle	Cool 4°	G	40 Days	
Fluoranthene µg/L	1 liter amber glass bottle	Cool 4°	Composite 4 grabs at 15 minute	40 Days	
Naphthalene µg/L	1 liter amber glass bottle	Cool 4°	intervals	40 Days	
Poly nuclear aromatic hydrocarbons µg/L	1 liter amber glass bottle	Cool 4°		40 Days	
Benzene μg/L	40-millilter glass vials	Hydrochloric Acid, Cool 4°	1 grab with 15	14 days	
Ethylbenzene μg/L	40	Hydrochloric Acid	minutes	14 days	
Toluene μg/L	40	Hydrochloric Acid	iiiiiucs	14 days	

Notes:

¹ The facility shall test for toxic pollutants, as identified in Appendix D of 40 CFR Part 122; in the Federal Register, Vol. 65, No. 210, pages 64800-64880, dated October 30, 2000; or in section 11-54-04, only if they are identified as potential pollutants requiring monitoring in the storm water pollution control plan or in the City's Annual Storm Water Monitoring Plan. The facility shall test for the total recoverable portion of all metals.

² A grab sample is collected during the first 15 minutes of the discharge. A composite sample is a combination of at least two (2) grab samples, collected at 15 minute intervals. The composite shall be flow proportional; either the time interval between each grab sample or the volume of each grab sample must be proportional to the total flow of storm water discharge flow since the collection of the previous grab sample. The Permittee may collect grab samples manually or automatically. Samples for analysis shall be collected during the first 15 minutes of the discharge and at 15-minute intervals thereafter for the duration of the discharge, as applicable. If the discharge lasts for over an hour, sample collection may cease. If the duration of the discharge event is less than 30 minutes, the grab sample collected during the first 15 minutes of the discharge shall be analyzed as a grab sample and reported toward the fulfillment of the composite sample specification. If the duration of the discharge event is greater than 30 minutes, the Permittee shall analyze two (2) or more grab samples as a composite sample.

5.3 Storm Runoff Sample Collection

Storm water samples will be collected from the sampling point, Discharge Point 1, shown in Figure 2-2. Discharge Point 1 captures runoff from employee and equipment parking and also the fueling area. The point was considered to be representative of flow from most of the baseyard and a sample could be collected there (see Section 2.2). Samples will be collected during the first 15 minutes of the discharge and at intervals thereafter as shown on Table 5-1. For composite samples, if the rainfall stops after only one sample has been collected, then the sample will be analyzed as a grab sample. If two or more samples were collected, the sample shall be combined proportionally to make a composite sample. This composite shall be flow proportional based on the time of collection between samples or the volume of each aliquot added to the composite sample. The storm water flow will be calculated or estimated based on the collected rain gauge data. All storm water samples will be collected directly into laboratory provided pre-cleaned sample containers.

5.4 Sample Labeling and Chain of Custody

Sample logs will be maintained by the Facility Supervisor to provide records of the sample collection and storm water events, observations, and measurements during the collection.

Each sample container sent to the laboratory must have its own sample identification label. The following information will be included on the sample label:

- site name;
- sample number;
- date and time of sampling;
- initials of the sampling personnel;
- sample preservative used (if any); and
- type of analysis to be performed.

Chain of custody (COC) information will be maintained for samples during all phases of sample collection, transport, and receipt and internal transfer within the laboratory.

5.5 Sample Handling and Shipping

Immediately following collection, samples will be placed in an insulated cooler filled with ice for preservation. The cooler shall be kept at approximately 4 ± 2 °C with ice or Blue Ice® packs until submitted to the laboratory. Glass containers should be wrapped in bubble wrap to prevent breakage during shipment, and placed in an individual Ziploc bag.

Samples will be sent to the laboratory within 24 hours of collection. COC forms will be placed inside a Ziploc bag and placed inside the sample cooler. Coolers will then be sealed and delivered to the laboratory.

5.6 Sample Analysis

The following list of analytes is in accordance with the NGPC (Table 5-2). The laboratories selected to perform the analyses will have a quality assurance/quality control (QA/QC) program in place and will be evaluated to perform the selected analyses. All analyses will be conducted according to the guidance outlined in EPA Contract Laboratory Program (CLP), EPA SW-846.

Table 5-2: Storm Water Monitoring Parameters

ble 5-2: Storm War Storm Water Discharge Parameter	Storm Water Discharge Limitation ²	Type of Sample	Testing Method	Detection Limit
Quantity of Discharge (gallons)	*	Calculated or Estimated	Estimated	N/A
Biochemical Oxygen Demand (5-day) (mg/L)	*	Grab/Composite	5210B	2
Chemical Oxygen Demand (mg/L)	*	Grab/Composite	410.4	3
Total Suspended Solids (mg/L)	*	Grab/Composite	E160.2	1.0
Total Phosphorus (mg/L)	*	Grab/Composite	E365.4	<50
Total Nitrogen (mg/L)	*	Grab/Composite	SM4500-N	< 250
Nitrate+Nitrite Nitrogen (mg/L)	*	Grab/Composite	E353.2	50
Oil and Grease (mg/L)	15	Grab	EPA Method 1664, Revision A.	1.4
pH (standard units)	5.5-8.0 s.u.	Grab - The facility shall measure pH within fifteen minutes of obtaining the grab sample.	meter	N/A
Lead μg/L	29	Grab/ Composite	EPA 200.8	1
Acenaphthene μg/L	570	Grab/ Composite	EPA 625	2
Fluoranthene µg/L	1300	Grab/ Composite	EPA 625	3
Naphthalene μg/L	770	Grab/ Composite	EPA 625	2
Poly nuclear aromatic hydrocarbons µg/L	Report any detected concentration greater than 0.01	Grab/ Composite	EPA 625	2
Benzene µg/L	1800	Grab	EPA 624	5
Ethylbenzene µg/L	11,000	Grab	EPA 624	8
Toluene μg/L	5800	Grab	EPA 624	6

Notes:

5.7 Field Data

In addition to the collection of storm water samples for laboratory analysis, the following field data will be collected for each storm water monitoring event.

Site Specific Information -- Site location, date, monitoring personnel, type of equipment used, starting and ending times of the storm event, starting and ending times of the sample collection event, sample collection times, date of the previous 0.1 inch storm event, drainage area, rainfall intensity (as determined from rain gauge), and ground surface type.

Observations of Storm Water -- Visual observations of the storm water for signs of sedimentation, debris, and petroleum sheens. Olfactory observations of the storm water for chemical and petroleum odors.

Inspection of Receiving State Waters -- The storm water sampling activity shall include an inspection of the receiving state waters at the outfall to detect any apparent violations of the basic water quality criteria as specified in HAR Section 11-54-4.

5.8 Reporting Requirements

Storm water monitoring results shall be submitted to the Director of Health for the DOH Clean Water Branch. Results shall be submitted at least annually and no later than 90 days after the end of the calendar year. The results must be reported on a NPDES Discharge Monitoring Report (DMR) Form (Appendix C). In addition to the DMR, the laboratory analytical data reports for all samples collected; quality assurance/quality control data; field data described above; any additional pollution control strategies to be implemented based on the monitoring results; and all field notes shall be included in the submittal. If storm water samples are not collected for a particular monitoring year, the DMR shall be completed indicating such. Storm water monitoring results submittals shall be delivered to:

Director of Health Clean Water Branch Environmental Management Division State Department of Health P.O. Box 3378 Honolulu, HI 96801-3378

If monitoring results exceed the effluent limitations listed in Table 5-2, an oral report shall be made to the DOH, Clean Water Branch via telephone (808) 586-4309 during normal business

¹ The facility shall test for toxic pollutants, as identified in Appendix D of 40 CFR Part 122; in the Federal Register, Vol. 65, No. 210, pages 64800-64880, dated October 30, 2000; or in section 11-54-04, only if they are identified as potential pollutants requiring monitoring in the storm water pollution control plan or in the City's Annual Storm Water Monitoring Plan. The facility shall test for the total recoverable portion of all metals.

² Parameter concentration levels shall not exceed the criteria listed in the table. Concentration levels that exceed the criteria shall be reported to the director as required in section 10(c) of HAR 11-55 Appendix B.

 $[\]mu g/L$ - micrograms per liter

mg/L - milligrams per liter

^{*} No limitation at this time. Only monitoring and reporting is required.

hours, as soon as the results become available, detailing the suspected origin or cause of the non-compliance and measures which will be taken to prevent re-occurrence. For after business hours, the non-compliance may be reported to the Hawai'i State Hospital Operator (808) 247-2191.

Section 6 SWPCP Implementation

Implementation steps for this SWPCP include: (1) the training of employees; (2) annual site inspections; (3) completion of documentation; and (4) revisions to this SWPCP.

6.1 Employee Training Program

Employee training programs are used to inform personnel, at all levels of responsibility, of the processes and materials with which they are working, the health and safety hazards, the best management practices for preventing releases, and the procedures for responding properly and rapidly to releases of potential pollutants. The important aspects of this control measure include the following actions.

- Training and retraining sessions held at least on an annual basis to assure adequate understanding of training goals and objectives may be conducted as a part of routine staff meetings. New employees will be trained on procedures of the SWPCP as part of their safety orientation.
- Training for regular employees will vary from monthly to annually and is the responsibility of the facility supervisors. At a minimum, the following topics will be reviewed with regular employees at least annually:
 - potential pollutants (Section 3.1);
 - past spills or releases and their causes;
 - all BMPs (Appendix A);
 - spill prevention and response (Section 4.2);
 - spill documentation (Appendix B);
 - spill reporting (Section 4.2.3 and Table 4-2); and
 - site inspections (Section 6.2).
- Making employees aware of BMPs for material handling, fueling, washing, equipment operation, visual inspection, preventative maintenance, and good housekeeping.
- Making employees aware of the concept of separation of process waste and storm water.
- Learning from information compiled on past releases and causes.
- Adequate training in release reporting procedures and spill cleanup measures.

A summary of the employee training program is provided in Table 6-1. A copy of the training log is provided in Appendix D and shall be completed after each training session.

Training Topic	Trainee	Responsibility	Frequency
Potential Pollutants	Maintenance Staff	Facility Supervisor	Annually
Best Management Practices	Maintenance Staff	Facility Supervisor	Annually
Past Releases and Causes	Maintenance Staff	Facility Supervisor	Annually
Spill Prevention and Response Plan	Maintenance Staff	Facility Supervisor	Annually
Site Inspections	Maintenance Staff	Facility Supervisor	Annually

6.2 Protocol for Site Inspections

The DOT Highways Environmental Engineer or designee appointed by DOT Highways will perform quarterly inspections to ensure that BMPs are in place and in proper working order. Using the Third-Party Site-specific SWPCP Facility Inspection Form (Appendix E), the inspector will make site observations to determine the following:

- preventative maintenance and housekeeping activities are being implemented and documented;
- spill prevention and response procedures are being implemented and spill prevention equipment is operational and ready;
- revisions to the SWPCP are implemented; and
- proper training procedures are implemented.

6.3 Documentation Procedures

Records shall be kept that document all spills, leaks and other discharges, including hazardous substances in reportable quantities that occur at the facility. A copy of the Spill Response Documentation Form is provided in Appendix B.

Reports of all inspections performed at the site shall be retained at the facility. The inspector shall document all observations, particularly the effectiveness of site BMPs. A copy of an example of the Training Log that should be completed by the Facility Supervisor to document all employee training with regards to this SWPCP is provided in Appendix D; actual Training Logs are available in the Training Binder.

The general Facility Inspection form is provided in Appendix E. Inspection records shall be analyzed annually (to correspond with annual inspections) to determine if BMPs are effective, and if not, what needs to be done to improve the methods used at the site.

All documentation shall be kept on-site for a minimum of five years. A copy of the SWPCP shall also be made available to personnel as a reference in the same location that material safety data sheets (MSDS) and other safety information are maintained.

6.4 Revisions to the SWPCP

This subsection describes the procedure for incorporating revisions into the SWPCP. Revisions will typically occur immediately after a site inspection. In addition, SWPCP reviews shall be performed periodically or as needed to assess the effectiveness of the BMPs and to implement appropriate revisions due to:

- changes to facilities onsite;
- changes to activities conducted onsite;
- changes in materials used onsite;
- changes in the materials handling/maintenance/fueling procedures; and/or
- changes in management practices.

Revisions may also be made if BMPs in the SWPCP do not achieve the general objectives of controlling pollutants in storm water discharges and/or the facility is found to be in violation of any storm water management practices. Revisions shall be incorporated into the SWPCP according to the following.

- The revision(s) are incorporated into the current digital file(s).
- The Revision Log provided in Appendix F1 that describes the revision(s) is completed.
- The revision date in the revised section(s) footer is updated.
- The Updated Revision History provided in Appendix F2 is updated.
- Copies of the revised section(s), Revision Log, and Updated Revision History are distributed to the Facility Supervisor.

SWPCP review and revisions will take no longer than 30 days to be completed. All personnel at the facility will be informed during staff meetings of any changes made to the SWPCP, and will be trained on new or modified procedures, as necessary.

SWPCP Implementation
November 2016

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Section 7 References

- City & County of Honolulu, Department of Environmental Services, "Best Management Practices Manual for Construction Sites in Honolulu," May 1999.
- Hawai'i Administrative Rules (HAR) Title 11, Chapter 55, Water Pollution Control and Chapter 451, State Contingency Plan, October, 2002.
- State of Hawai'i Department of Transportation, Highways Division "Storm Water Management Program Plan, O'ahu District, Pre-Final Compilation" December 2015.
- State of Hawai'i Department of Health, Notice of General Permit Coverage File No. HI R80D502. October 13, 2009.
- U.S. Environmental Protection Agency, 33 CFR 153, Control of Pollution By Oil and Hazardous Substances, Discharge Removal, 40 CFR 110, Discharge of Oil, 40 CFR 116, Designation of Hazardous Substances, 40 CFR 122 EPA Administered Permit Programs: The National Pollutant Discharge Elimination System, and 40 CFR 300, National Oil and Hazardous Substances Pollution Plan.

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Appendix A: Best Management Practices (BMPs)

- A1: Housekeeping Practices
- A2: Vehicle and Equipment Washing, Maintenance and Repair
- A3: Vehicle and Equipment Fueling
- A4: Material Storage
- A5: Spill Prevention and Response
- A6: Hazardous Waste Management

Storm Water Pollution Control Pla	an	
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Housekeeping Practices BMP

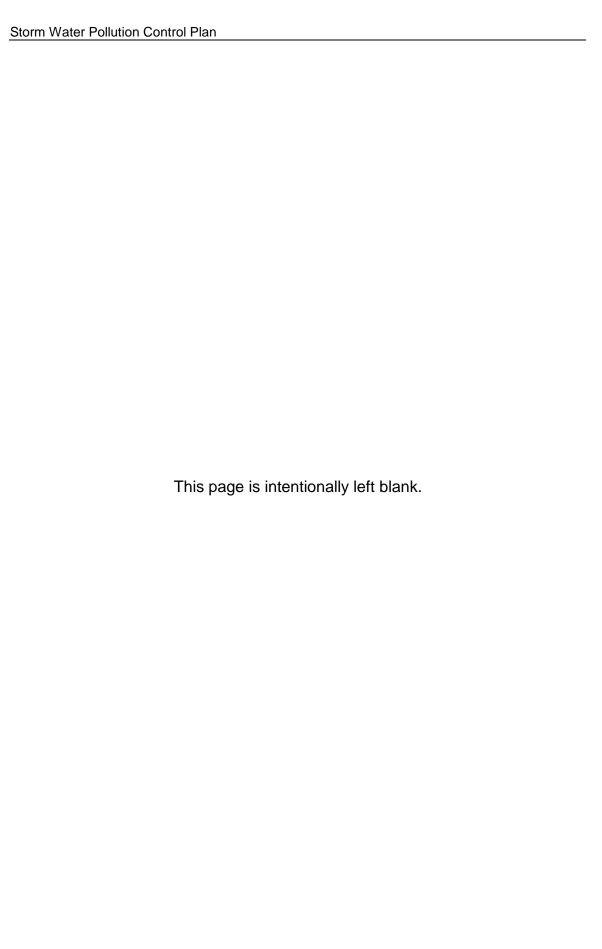
Description

Daily activities performed by the State of Hawai'i Department of Transportation (DOT), Highway Division (Highways) require the use of materials and products that are potential contaminants in storm water. Good housekeeping practices at the facilities where these materials are used and/or stored are intended to maintain a clean, safe, and orderly working environment. A clean and orderly work area reduces the possibility of accidental spills caused by mishandling of equipment and should reduce safety hazards to personnel.

Limitations

There are no major limitations to the implementation of this BMP. This BMP of good housekeeping practices is to be followed by all DOT personnel performing activities at the DOT facilities.

#	Approach	Check
A1-1	Train DOT employees in good housekeeping practices on an annual basis.	
A1-2	Minimize water use in washing activities.	
A1-3	Sweep or vacuum maintenance facility floors regularly to prevent tracking materials.	
A1-4	Do not overfill trash receptacles or leave trash outside of containers.	
A1-5	Keep trash receptacles of all sizes covered.	
A1-6	Pickup and properly dispose of litter and debris on a regular basis.	
A1-7	Use absorbent materials in work areas rather than hosing them down whenever possible.	
A1-8	Maintain an ample supply of spill cleanup materials that are in good condition.	
A1-9	Promptly clean spills with rags or absorbent material, and properly dispose of cleaning materials.	
A1-10	Inspect facility storm drain inlets regularly for clogging and debris. Clean as necessary.	
A1-11	Clean storm drain inlets by either shoveling or using of a vacuum truck.	
A1-12	Material in storm drain inlets is not to be flushed downstream.	
A1-13	Maintain accurate inventory of stored products and materials.	
A1-14	Label products and material properly.	
A1-15	Use up existing products and materials before purchasing or using additional ones of the same kind.	
A1-16	Avoid excessive watering of landscaped areas to minimize runoff.	
A1-17	Store materials removed from DOT's rights-of-way in covered areas to the extent practicable. Do not store in areas where storm water runoff flows to drain inlets.	
A1-18	Dispose of materials removed from DOT's rights-of-way in a timely manner.	
A1-19	Identify all chemical substances present in the workplace, compile MSDS, and store MSDS in an area where all employees have access.	
A1-20	Perform facility inspections on a regular basis to ensure good housekeeping practices are being followed by facility personnel.	



Vehicle and Equipment Washing, Maintenance, and Repair BMP

Description

Routine maintenance of vehicles and equipment must be done to maintain their proper operation. In addition to washing, maintenance may include vehicle and equipment fluids removal, engine and parts cleaning, or tire repair and replacement. This BMP is intended to reduce the impact of these activities on storm water runoff.

Limitations

There are no major limitations to the implementation of this BMP.

#	Approach	Check
A2-1	Wash vehicles and equipment in designated areas away from storm drain inlets.	
A2-2	Use vehicle wash racks whenever practical. Ensure that rinse water from wash racks and sinks does not drain to the storm drainage system. Connect all sinks to the sanitary sewer system.	
A2-3	Prohibit washing and repair of personal vehicles at DOT facilities.	
A2-4	Maintain DOT vehicles in good operating condition.	
A2-5	Inspect damaged vehicles for fluid leaks as soon as possible. Use drip pans as necessary.	
A2-6	Transfer removed vehicle fluids to designated storage container(s) as soon as possible.	
A2-7	Use drip pans whenever changing vehicle fluids.	
A2-8	Store exposed drums/containers of liquid material or wastes on secondary containment pallets when in use.	
A2-9	Remove drip pan promptly after vehicle plugs have been tightened and checked to assure no leakage.	
A2-10	Check degreasing solvent tank for leaks regularly. Repair as necessary.	
A2-11	Allow parts to drain over solvent tank or drip pan. Do not allow solvent to drip or spill onto the floor.	
A2-12	Designate areas in service bays for parts cleaning. Do not wash or rinse parts outdoors.	
A2-13	Use a vacuum to cleanup dust from sanding.	
A2-14	Use damp cloths, brooms, and absorbent material for cleaning. Do not hose or blow the area to remove dust.	
A2-15	Maintain an ample supply of absorbent material near maintenance areas.	
A2-16	Store materials for constructing temporary berms to protect storm drain inlets in the event of a spill.	
A2-17	Install "No Dumping" placards on all storm drains at DOT facilities to educate personnel that non-storm water is not to be discharged to the storm drainage system.	



Vehicle and Equipment Fueling BMP

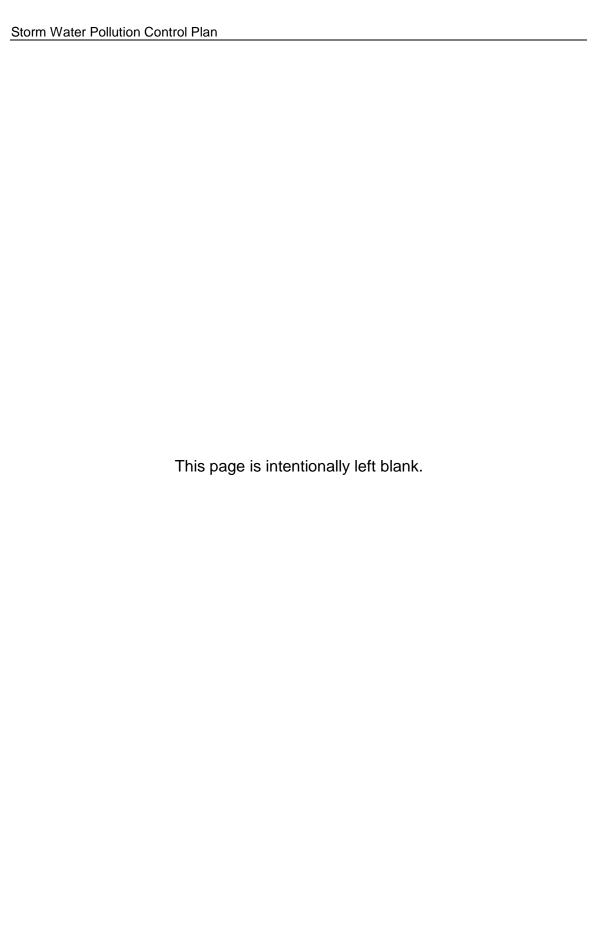
Description

During fueling of vehicles and equipment, there is the potential for leaked or spilled fuel to contaminate storm water. The procedures outlined in this BMP are intended to prevent fuel spills and leaks and reduce their impact on storm water.

Limitations

There are no major limitations to the implementation of this BMP.

#	Approach	Check
A3-1	Perform fueling of vehicles and equipment in designated areas, away from	
A3-1	drain inlets, drainage channels, or receiving waters.	
A3-2	Maintain an ample supply of spill cleanup materials and spill control	
7.0 2	equipment near fueling areas.	Ш
A3-3	Equip fuel trucks and mobile tanks with spill cleanup materials.	
A3-4	Discourage topping off and unattended fueling.	
A3-5	Post proper fueling and cleanup instructions in fueling areas.	
A3-6	Avoid hosing off fueling area.	
A3-7	Inspect portable fueling tanks along with hoses and dispensing nozzles	
A3-7	regularly for cracks and leaks. Repair as needed.	
A3-8	Check for proper operation of automatic shut off controls on fuel dispensing	
7.5-0	nozzles. Repair as needed.	



Materials Storage BMP

Description

A variety of products and materials that may adversely affect water quality are stored at DOT facilities. This BMP is intended to reduce the potential for the contamination of storm water by minimizing exposure of such products and materials to storm water.

Limitations

There are no major limitations to the implementation of this BMP.

#	Approach	Check
A4-1	Store materials in appropriate containers as recommended by the manufacturer.	
A4-2	Ensure that all containers are closed, securely fastened, stored neatly, and properly labeled.	
A4-3	Maintain accurate inventory of stored supplies. Periodically review inventory and storage areas to evaluate the need to keep stored materials. Supplies that are past their expiration date should be evaluated to see if they are still suitable for use. Supplies that are deteriorating or in bad condition should be discarded regardless of their expiration date. Properly dispose of materials that do not need to be kept.	
A4-4	Store materials and containers indoors or in covered areas whenever practical.	
A4-5	Place containers atop pallets when storing containers outdoors, to minimize contact with run off/run-on.	
A4-6	Cover containers and materials with a tarp when storing them outdoors, wherever practical.	
A4-7	Store materials that must be stored in the open away from drain inlets and natural waterways to minimize their contact with storm water. Berm uncovered areas where stockpile erosion or contaminated runoff can occur. Direct collected runoff from within the berms to a sump or low area for removal by pumping or vacuuming. Dispose of collected water in the sanitary sewer.	
A4-8	Maintain an ample supply of spill clean-up materials near storage areas.	
A4-9	Clean small spills with rags or absorbent material. For larger spills, contact spill response personnel immediately.	
A4-10	Sweep or vacuum up spilled materials that can be conveyed in storm water flows.	
A4-11	Inspect storage areas regularly. Look for leaking or corroded containers, chemical discoloration, or other changes in the containers or contents that may indicate a potentially hazardous condition or chemical deterioration.	



Spill Prevention and Response BMP

Description

Spills of materials used and stored at DOT facilities can contaminate storm water runoff. The guidelines outlined in this BMP are intended to prevent spills from occurring and to outline procedures to be followed in the event of a spill.

Small spills of oil (less than 25 gallons) which are capable of being cleaned up within 72 hours and do not threaten ground or surface waters will be cleaned up using absorbent materials or other acceptable practices, without disrupting facility operations. Daily inspections of the facility will identify any small spills, which will be addressed immediately.

In the event of a large or uncontrolled release, the Supervisor shall act as the Emergency Coordinator (EC) until relieved by the appropriate DOT personnel. Employees should follow the guidelines listed below where practicable.

Limitations

DOT does not have legal responsibility for cleanup outside of the right-of-way in cases where a third party generates the spill. The Honolulu Fire Department (HFD) is typically the lead agency for emergency response to hazardous spills on all non-military lands of Lana'i. Highways Division assists the HFD with spill response for spills within Highways Division's rights-of-way. Once the emergency is stabilized, the release response may be turned over to DOH. In certain situations, DOH may be the lead agency. The Military Fire Department is the lead agency for emergency response to hazardous spills on military lands.

#	Approach	Check
A5-1	Stop work.	
A5-2	Shut down pumps and equipment and secure valves and work operations.	
A5-3	Shut down any nearby propane tanks.	
A5-4	Move away from the affected area.	
A5-5	Notify and alert others of the incident via: (1) Voice; (2) Hand-held radios; and/or (3) Other effective means.	
A5-6	Keep non-essential employees away from the spill area.	
A5-7	Notify the EC.	
A5-8	The EC shall evaluate the situation and decide whether to implement a "fight or flight" (stay and contain the hazard or evacuate for personal safety) response by gathering the following information, if it can be done safely: 1. Your name, location, and how you may be reached. 2. Location of the release. 3. Type, quantity, and description of the release. 4. Hazards of the release. 5. Type of media affected (soil, asphalt, concrete, etc.). 6. Rate of the release. 7. Migratory direction of the release.	

APPENDIX A5

SPILL PREVENTION AND RESPONSE BEST MANAGEMENT PRACTICE (Continued)

#	Approach	Check
	Potential for fire or explosion.	
	Potential for human exposure. Potential for migration to surface water (cooper storm drains)	
	 Potential for migration to surface water (ocean, storm drains, etc.). 	
A5-9	Never subject yourself or other personnel to unreasonable risk of illness or injury.	
A5-10	Remove all injured persons from the immediate area of danger and render first aid. If injuries are severe, call 911 for emergency medical assistance.	
A5-11	If the decision is to "fight," personnel are to don the appropriate personal protective equipment (PPE).	
A5-12	Eliminate all possible sources of ignition/detonation such as vehicle engines, welding and grinding operations, and smoking.	
A5-13	If the spill is of a flammable substance, remove or isolate ignitable and incompatible materials from the area of the release.	
A5-14	Locate, stop, and contain the source of the release by: 1. Closing, checking, repairing, plugging valves; and/or 2. Plugging and patching holes.	
A5-15	Confine the release to prevent further migration by: 1. Diking and berming using sand, soil, or other inert material; 2. Sealing storm drains with plastic and sandbags; 3. Placing granular sorbent or absorbent pads and booms; 4. Diverting the chemicals from entering drains, manholes, streams, etc.; or 5. Implementing retention techniques.	
A5-16	Call the facility spill response contractor for cleanup and removal of accumulated product resulting from the release. The contractor will remove spilled product and properly dispose of the material in accordance with applicable state and federal regulations.	
A5-17	If the release is not readily and easily controlled, evacuation may be necessary.	
A5-18	If the EC decides on the "flight" option, the EC is to immediately alert and evacuate all personnel.	
A5-19	Call H3 tunnel dispatch at 485-6200 and notify them of the spill. If H3 Tunnel dispatch is not available, call 911 for emergency situations (Refer to Storm Water Pollution Control Plan Table 4-2)	
A5-20	Personnel are to proceed along the nearest evacuation route to the designated assembly area as shown on Figure 2-1.	
A5-21	Implement proper decontamination procedures on vehicles, affected media, PPE, and equipment.	
A5-22	All used decontamination solution, disposable PPE and affected media must be properly packaged in U.S. Department of Transportation (U.S. DOT) - specified containers.	
A5-23	Labeling, transportation and subsequent disposal of hazardous materials/waste must be in accordance with applicable government regulations.	
A5-24	Complete the Spill Response Documentation form provided in Appendix B.	

Hazardous Waste Management BMP

Description

Many of the chemicals used on-site are hazardous materials, which become hazardous waste upon disposal. These wastes may include:

- Paints and solvents;
- Petroleum products such as oils, fuels, and grease;
- Herbicides and pesticides;
- Acids from lead/acid batteries; and
- Other compounds.

The procedures outlined in this BMP are intended to prevent or reduce the discharge of pollutants to storm water *and to the land* from hazardous waste through proper material use, waste disposal, and training of employees and subcontractors.

Limitations

Hazardous waste that cannot be reused or recycled must be disposed of by a licensed hazardous waste transporter.

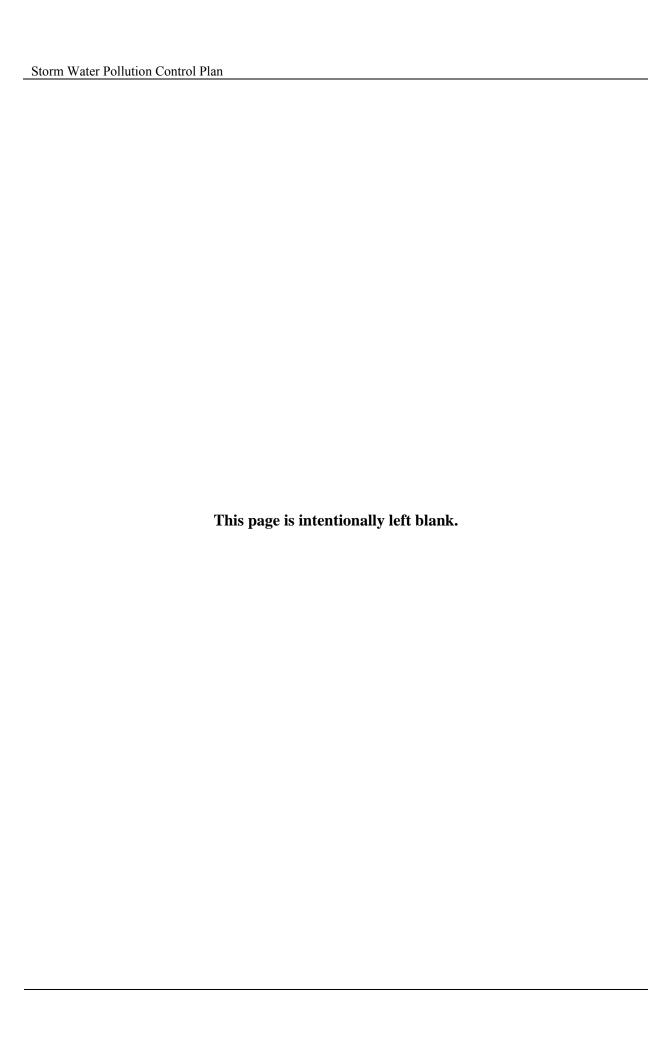
#	Approach	Check
A6-1	Use the entire product before disposing of the container.	
A6-2	Do not remove the original product label; it contains important safety and disposal information.	
A6-3	Do not over-apply herbicides and pesticides. Prepare only the amount needed. Follow the recommended usage instructions. Over-application is expensive and environmentally harmful. Apply surface dressings in several smaller applications, as opposed to one large application, to allow time for infiltration and to avoid excess material being carried offsite by runoff. Do not apply these chemicals just before it rains. Follow DOT Chemical Application Plan.	
A6-4	Do not clean out brushes or rinse paint containers into the dirt, street, gutter, storm drain, or stream. "Paint out" brushes as much as possible. Rinse water-based paints to the sanitary sewer. Filter and re-use thinners and solvents. Dispose of excess oil based paints and sludge as hazardous waste.	
A6-5	Only purchase and store reasonable quantities of hazardous materials.	
A6-6	Select designated hazardous waste collection areas on-site.	
A6-7	Hazardous materials and wastes should be stored in covered containers and protected from vandalism.	
A6-8	Place hazardous waste containers in secondary containment.	
A6-9	Do not mix wastes, this can cause chemical reactions, make recycling impossible, and complicates disposal.	
A6-10	Recycle any useful material such as used oil or water-based paint.	
A6-11	Make sure that toxic liquid wastes (used oils, solvents, and paints) and	

APPENDIX A6

HAZARDOUS WASTE MANAGEMENT BEST MANAGEMENT PRACTICE (Continued)

#	Approach	Check
	chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.	
A6-12	Arrange for regular waste collection before containers overflow.	
A6-13	Make sure that hazardous waste (e.g. excess oil-based paints and sludges) is collected, removed, and disposed of only at authorized disposal areas by a licensed hazardous waste transporter.	
A6-14	Place a stockpile of spill cleanup materials where it will be readily accessible.	
A6-15	If a container does spill, clean up immediately.	

Storm Water Pollution Control Plan	
Appendix B: Spill Response Documentat	ion
	WIL
Form	



Spill Response Documentation Form

Date:	Completed By:				
Date of Spill:					
Material Spilled:	Quantity of Material Spilled:				
Describe Location of Spill:					
Ground surface on which material was spilled:					
Describe how the spill occurred:					
Duration before spill response action was implemented:	Duration before spill response action was completed:				
Describe how the source of the release was stopped or contained:					
Describe measures taken to prevent further migration of spilled material:					
Describe the material used to remediate the spill:					
Describe how the material used to remediate the spill was stored and disposed:					
Describe measures taken to prevent this type of sp	ill in the future:				
Provide other relevant information:					



Storm Water Pollution Control Plan
Appendix C: Discharge Monitoring Report Form

Storm Water Pollution Control Plan	
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. . . .

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different) NAME ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16)
(17-19)

Form Approved. OMB No. 2040-0004 Approval expires 05-31-98

PERMIT NUMBER

(26-27) (28-29) (30-31) DISCHARGE NUMBER DAY MONITORING PERIOD

DAY YEAR MO ဥ (20-21) (22-23) (24-25) MO DAY YEAR FROM

FACILITY LOCATION

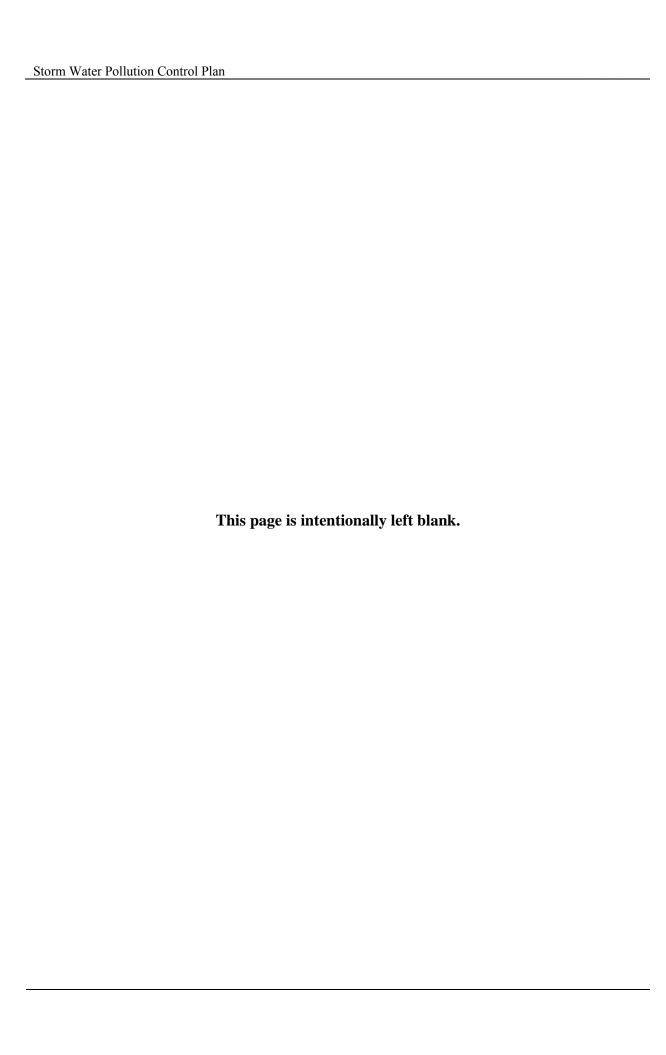
NOTE: Read Instructions before completing this form Check here if No Discharge

PARAMETER		(3 Card Only) GOV (46-53)	(54-61)	2	(* Card Only) G (38-45)	(46-53) (54-	NTHATION (54-61)		δχ		0)
(10-20)		AVERAGE	MAXIMUM	STINO	MINIMUM	AVERAGE	MAXIMUM	UNITS	٣	3) ANALYSIS (64-68)	(69-70)
	SAMPLE MEASUREMENT				:						
	PERMIT REQUIREMENT										
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	SAMPLE										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		JNDER PENALTY OF LAW THA	NT THIS DOCUMENT AND ALL A	TTACHMENTS WERE	PREPARED			TELEP	TELEPHONE		DATE
	THAT QUAL BASED ON PERSONS SUBMITTEE I AM AWAF	IFIED PERSONNEL PROPER MY INQUIRY OF THE PERS DIRECTLY RESPONSIBLE IS, TO THE BEST OF MY KN RE THAT THERE ARE SIGNIF	THAT CIALLIFED PERSONNEL PROPEBLY CATHER AND EXALLATE THE INFORMATION SUBMITTED PASSED ON BY INCUSING THE PERSON ON PERSONS WHO MANAGE THE SYSTEM, ON THOSE PERSONS NEW CHANAGE THE SYSTEM, ON THOSE PERSONS NEW CHANAGE THE SYSTEM, ON THOSE PERSONS DIRECTIF THE INFORMATION THE SALD COMPLETE. AM ANMARE THAT THERE ARE SIGNIFICANT PERMALTIES FOR SUBMITTING FALSE INFORMATION.	THE INFORMATION OF THE SYSTEM, INFORMATION, THE INFE E, ACCURATE, AND MITTING FALSE INF							
TYPED OR PRINTED	U.S.C. § 100 or maximum	3 THE POSSIBILITY OF FINE 01 AND 33 U.S.C. § 1319. (Pe imprisonment of behaven 6 m	AND IMPRISONMENT FOR M enafties under these statutes m onthe and E years.	NOWING VIOLATION by include fines up to		SIGNATURE OF PRINCIPAL EXECUTIVE	EXECUTIVE .	AREA	01074114	,	9

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

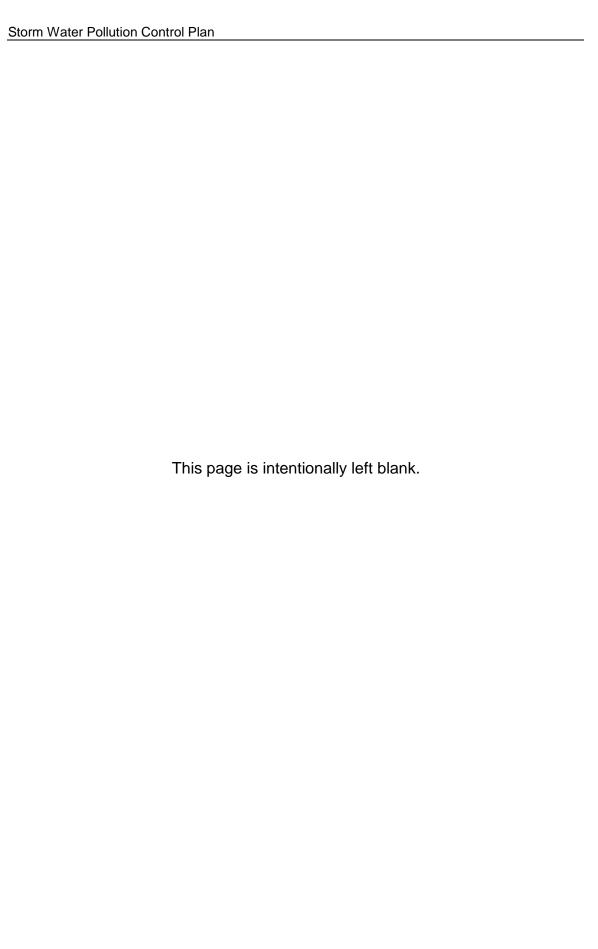
PAGE

Storm Water Pollution Control Plan	
Appendix D: Site-Specific Storm Water	
Pollution Control Plan (SWPCP) Training Lo	g
	O



Site-Specific SWPCP Training Log

Trainer:			Date:			
Signature:			Location:			
Topics Covered: Potential Pollutants (Section 3.1) Past Spills / Causes (Section 3.4) Housekeeping BMP (Append A1) Fueling BMP (Append A3) Storage BMP (Append A4) Haz Mat BMP (Append A6) Washing, Maint. and Repair BMP (Append A2) Spill Prevent. and Respond (Section 4.2.3 and Append A5) Spill Documentation (Append B) Spill Reporting (Section 4.2.2) Spill Reporting (Section 5.2 and Append C)						
Nar	ne	Signature	Da	te	Group	



Storm Water Pollution Control Plan	
Appendix E: Third-Party Site-specific SWPC	P
Facility Inspection Form	
raciny inspection roim	

Storm Water Pollution C	Control Plan	
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Third-Party Site-Specific SWPCP Facility Inspection Form

Facility Name:			
Inspector's Name & Title:			
Date & Time of Inspection:			
Weather:	Raining	Sunny	Cloudy
	☐ High Wind	Moderate Wind	Calm
	Precipitation in last 24	4 hours?	☐ Yes ☐ No

SITE OBSERVATIONS / MANAGEMENT CONTROLS / BMPs

Issue Being Evaluated	Yes	No	N/A	Comments and Corrective Actions
Are preventive maintenance and documented?	housel	keepir	ng activ	vities being implemented and
Are all work areas and storage areas neat and clean?				
Are the loading and unloading areas clean?				
Is the drainage area clean of debris (paper, leaves)?				
Catch basins cleaned				
Regular removal/disposal of trash and waste products				
Are dumpsters and recycle bins kept closed when not in use?				
Are potential pollutants stored under covered areas?				
Are drums stored within secondary structures / containment?				

Issue Being Evaluated	Yes	No	N/A	Comments and Corrective Actions
Are any material storage containers, equipment, etc. leaking?				
Are oily parts and/or chemical containers exposed to storm water contact?				
Are materials properly labeled?				
Identification of all chemicals (MSDSs)				
Prevention of chemical accumulation on ground in building				
Vehicles are serviced in covered areas				
Is any equipment maintenance being performed outdoors?				
Is equipment or vehicles being washed in designated areas?				
Are drip pans placed under equipment and vehicles?				
Are drip pans clean and in good condition (not leaking)?				
Petroleum products recycled				
Is there dirt and grease buildup in the parking lot?				

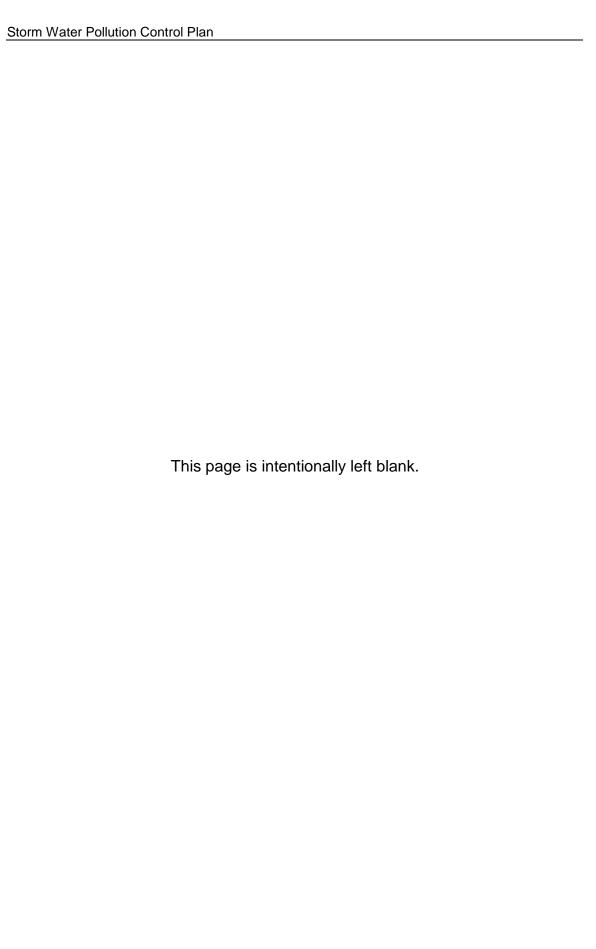
Issue Being Evaluated	Yes	No	N/A	Comments and Corrective Actions
Are there stains on the paved areas?				
Any water flowing into outfall/offsite? (if yes, identify source)				
Visual inspection of facility				
Maintenance of inspection log (documented and current)				
Proper training of employees				
Restrict access to area and equipment				
Other				
Have spill prevention and respon prevention equipment operations				n implemented and is spill
Visual inspection of paved areas for spills and leaks				
Prompt removal of any spills or leaks using spill kits				
Spill response equipment stocked and inspected				
Other				

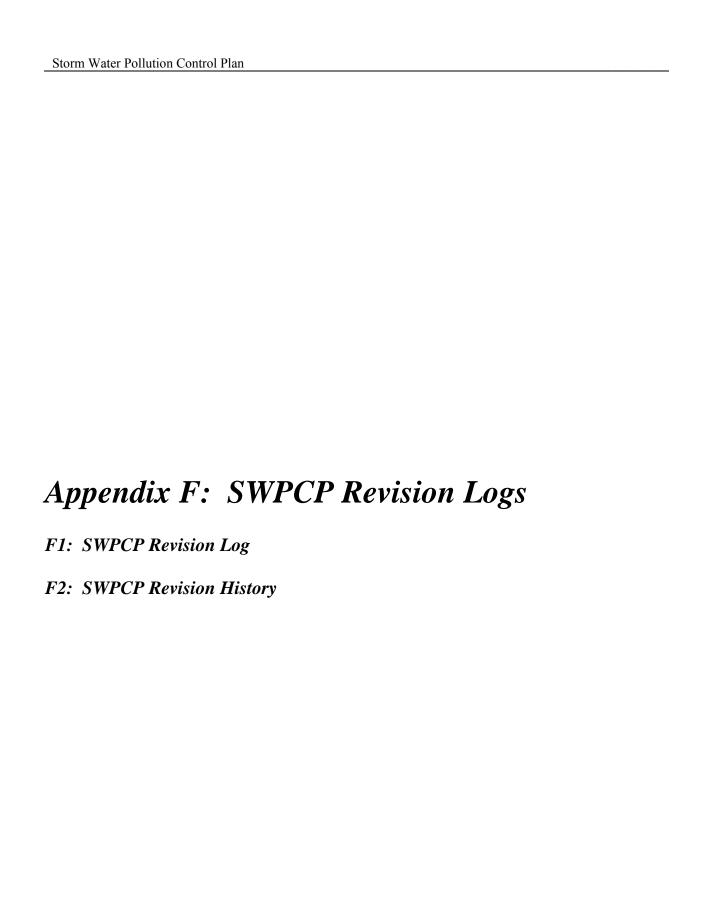
REVIEW OF SWPCP

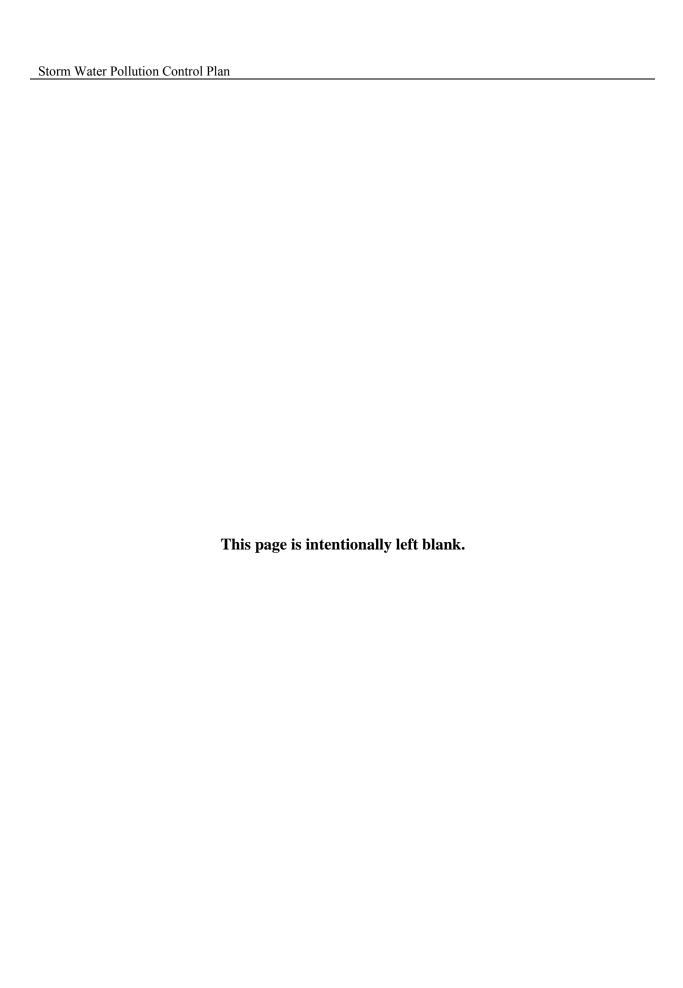
Issue Being Evaluated	Yes	No	Comments			
Are there changes to the site description?						
Are there changes to storm water control features?						
Are there changes to potential pollutant sources or activities?						
Are there changes to storm water program personnel?						
Have there been any spills or releases?						
Are corrective actions necessary?						
Are there changes in employee responsibilities regarding storm water protection?						
	Questic		OMPOD Diag have as a de O	Yes	No	
	ISIONS to	o the s	SWPCP Plan been made?			
If yes to any of the above, have revi	Are additional revisions recommended?					
Are additional revisions recommend		recon	nmended indicate reason:			
		recon	nmended, indicate reason:			
Are additional revisions recommend		recom	nmended, indicate reason:			
Are additional revisions recommend	are not	mana	gement practices appear to			
Are additional revisions recommend If revisions have not been made or Do the existing management contro be effective in reducing the potentia	are not	mana	gement practices appear to			
Are additional revisions recommend If revisions have not been made or Do the existing management contro be effective in reducing the potentia	are not	mana	gement practices appear to			
Are additional revisions recommend If revisions have not been made or Do the existing management contro be effective in reducing the potentia	ent conte	mana orm wa rols/be ction?	gement practices appear to ater pollution? If no, indicate est management practices If yes, describe new storm eded to address sources of			
Are additional revisions recommend If revisions have not been made or Do the existing management control be effective in reducing the potential reason: Are there any additional management recommended as a result of the site water management/best management	ent conte	mana orm wa rols/be ction?	gement practices appear to ater pollution? If no, indicate est management practices If yes, describe new storm eded to address sources of			
Are additional revisions recommend If revisions have not been made or Do the existing management control be effective in reducing the potential reason: Are there any additional management recommended as a result of the site water management/best management	ent conte	mana orm wa rols/be ction?	gement practices appear to ater pollution? If no, indicate est management practices If yes, describe new storm eded to address sources of			

REVIEW OF TRAINING

Issue Being Evaluated	Yes	No	Comments		
Have employees been informed and trained of revisions?					
Is annual employee training current?					
Are employee training records documented?					
If no to any of the above, indicate retaken:	eason fo	r discr	epancy and what corrective act	ions will	be
REVISIONS OF STORM WAT			TION CONTROL PLAN		
	Questic	_		Yes	No
Have all revisions been made to the Hawai'i State Department of Health applicable)?					
If no, indicate reason:					
STORM WATER POLLUTION	CON	ΓROL	PLAN COMPLIANCE		
Based on site observations a this inspection report, this fa facility's SWPCP.					
Facility:					
Printed Name:					
Signature:					
Title:					
Date:					







F1 - SWPCP Revision Log

Section	Revision Date	Section	Revision Date	Section Name	Page(s)	Description of Revision	Date/Initial of Supervisor Briefing	Date/Initial Revision Distributed
See AppF2	Oct2015	see AppF2	Oct 2015	See AppF2	_	in response to EPA Violation	Oct 22,2015 SR	Oct 22, 2015 F.C.
see App F2	Nov2016	see AppF1	Nov2016	see App F2		updated to reflect yard renovation	Dec 5, 2016 DS	Dec 5 2016 Jage
								·
						1		
	Section See App F2	Section Date See App F2 Oct 2015	(To Be Discarded) (To Be Revision Date Section See Oct 2015 APAF2	(To Be Discarded) (To Be Inserted) Revision Date Section Date See App F2 Oct 2015 App F2 Oct 2015	(To Be Discarded) (To Be Inserted) Revision Date Section Date See APPF2 Oct 2015 See APPF2	(To Be Discarded) (To Be Inserted) Revision Section Date Section Date Section Name Page(s) See App F2 Oct 2015 See App F2 —	(To Be Discarded) (To Be Inserted) Revision Date Revision Date Section Name Page(s) Description of Revision See App F2 Oct 2015 App F2 Oct 2015 App F2 - In response to EPA Violation	(To Be Discarded) (To Be Inserted) Revision Section Date Section Date Section Date Revision Date Name Page(s) Description of Revision Briefing See App F2 Oct 2015 App F2 — In response to SR

F2 - SWPCP Revision History

		Current
		Revision
Section	Title	Date
Approvals F		Nov 2016
Table of Co		Nov 2016
List of Acro		Oct 2015
1	Introduction	Oct 2015
1.1	Background	Nov 2016
1.2	Purpose	Oct 2015
2	Site Description	Nov 2016
2.1	Facility Operations	Nov 2016
2.2	Site Drainage	Nov 2016
2.3	Climate	Oct 2015
3	Potential Pollutants and Site Runoff	Oct 2015
3.1	Potential Pollutants	Oct 2015
3.2	Routine Runoff	Nov 2015
3.3	Non-Routine Runoff	Oct 2015
3.4	Historical Pollution Sources	Oct 2015
4	Pollutant Control Program	Oct 2015
4.1	Best Management Practices	Oct 2015
4.2	Spill Prevention and Response Plan	Oct 2015
4.2.1	Safety Measures	Oct 2015
4.2.2	Responsible Personnel and Emergency Contact Procedures	Oct 2015
4.2.3	Spill Containment and Remediation	Oct 2015
5	Storm Water Monitoring Program	Nov 2016
5.1	Representative Storm Event	Oct 2015
5.2	Sampling Equipment	Oct 2015
5.3	Storm Runoff Sample Collection	Nov 2015
5.4	Sample Labeling and Chain of Custody	Oct 2015
5. 7 5.5	Sample Handling and Shipping	Oct 2015
5.6	Sample Analysis	Nov 2016
5.7	Reporting Requirements	Oct 2015
6	SWPCP Implementation	Oct 2015
6.1	Employee Training Program	Oct 2015
6.2	Protocol for Site Inspections	Oct 2015
6.3	Documentation Procedures	Oct 2015
6.4	Revisions to the SWPCP	Oct 2015
7	References	Oct 2015
	Figures	000 2013
Fig. 2-1	Location Map	Nov 2016
Fig. 2-1	Site Plan	Nov 2016
Fig. 2-3	Drainage Map	Nov 2016
1 1g. 2-3	Tables	1100 2010
Table 2-1		Nov 2016
Table 2-1	Drainage Calculations Summary of Best Management Practices	Nov 2016 Oct 2015
Table 4-1	Emergency Contact Information	Oct 2015
Table 4-2	Sample Containers	
Table 5-1	Storm Water Monitoring Parameters	Oct 2015 Nov 2016
Table 5-2 Table 6-1	Summary of Employee Training Program	Oct 2015
1 4016 0-1	Appendices	Oct 2015
Ann A		lung
App. A	Best Management Practices (BMPs)	June2009
App. B	Spill Response Documentation Form	June2009
App. C	Discharge Monitoring Report Form	June2009
App. D	Site-Specific SWPCP Training Log	June2009
App. E1	Third-Party Site-Specific SWPCP Inspection Form	June2009

App. E2	SW PCP Revision Logs	Nov 2016
		_

Appendix G: Notice of General Permit Coverage

LINDA LINGLE

CHIYOME L. FUKINO, M.D. DIRECTOR OF HEALTH

In reply, please refer to: DOI VCW()

R80D502.FNL.09

October 13, 2009

The Honorable Brennon T. Morioka, Ph.D., P.E. Director Department of Transportation 869 Punchbowl Street Honolulu, Hawaii 96813-5097

Attention: Mr. Ferdinand Cajigal

Maui District Engineer

Dear Dr. Morioka:

Subject: NOTICE OF GENERAL PERMIT COVERAGE (NGPC)

National Pollutant Discharge Elimination System (NPDES)

Highways Kahului Baseyard Kahului, Island of Maui, Hawaii

File No. HI R80D502

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. §1251 et seq.; the "Act"); Hawaii Revised Statutes, Chapter 342D; and Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55, Department of Health (DOH), State of Hawaii,

STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** HIGHWAYS DIVISON (DOT-HWYS)

(hereinafter PERMITTEE)

is authorized to discharge storm water associated with industrial activity from the subject facility located at 650 Palapala Drive, Kahului, Island of Maui, Hawaii, TMK: (2) 3-8-079:018 (Portion), to the receiving State waters identified as the Kanaha Canal, a Class 2, Inland Water, at discharge point coordinates: Latitude 20°53'21"N and Longitude 156°26'57"W.

This NGPC will take effect on the date of this notice. This NGPC will expire at midnight, October 21, 2012, or when amendments to HAR, Chapter 11-55, Appendix B, are adopted, whichever occurs first. Any non-compliance with the conditions of this NGPC may be subject to penalties of up to \$25,000 per violation per day.

The Permittee shall:

- 1. Comply with HAR, Chapter 11-55, Appendix B, NPDES General Permit Authorizing Discharges of Storm Water Associated with Industrial Activities (enclosed).
- 2. Comply with HAR, Chapter 11-55, Appendix A, DOH, Standard General Permit Conditions (enclosed).
- 3. Comply with HAR, Chapter 11-55, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, 11-55-34.12 (enclosed), and any other sections applicable to the subject activity.
- 4. Comply with all materials submitted in and with the retained copy of the Notice of Intent (NOI), received on September 3, 2009 (received October 1, 2009), and all subsequent submittals.
- 5. Retain a copy of this NGPC and all other related materials at the facility.
- 6. Implement, operate, and maintain the project Storm Water Pollution Control Plan (SWPCP) to ensure that storm water discharges associated with industrial activities will not cause or contribute to a violation of applicable State water quality standards, as follows:
 - a. Continue to implement the SWPCP dated June 15, 2009 (received October 1, 2009).
 - b. Submit an updated SWPCP to the Clean Water Branch (CWB) to amend the storm water monitoring program in accordance this NGPC and with HAR, Appendix B, Sections 8.(a) and 8.(c) within 60 calendar days of the effective date of this NGPC.
 - c. Implement the updated SWPCP upon its submission to the CWB.
- 7. Submit the following storm water monitoring test results as required by the CWB-NOI Form B to the CWB at least 30 calendar days following the occurrence of the next representative storm event at the facility:
 - a. Water Quality Parameters in accordance with CWB-NOI Form B: Item No. B.11; and
 - b. Toxic Parameters in accordance with CWB-NOI Form B: Item No. B.12.

8. Sample the storm water discharge as described below:

Effluent Parameter (units)	Effluent Limitation {1}	Minimum Monitoring Frequency {2}	Type of Sample {3}
Flow (gallons)	{5}	Annually	Calculated or Estimated
Biochemical Oxygen Demand (5-Day) (mg/l)	{5}	Annually	Composite {4}
Chemical Oxygen Demand (mg/l)	{5}	Annually	Composite {4}
Total Suspended Solids (mg/l)	{5}	Annually	Composite {4}
Total Phosphorus (mg/l)	{5}	Annually	Composite {4}
Total Nitrogen (mg/l) {6}	{5}	Annually	Composite {4}
Nitrate + Nitrite Nitrogen (mg/l)	{5}	Annually	Composite {4}
Oil and Grease (mg/l)	15	Annually	Grab {7}
pH Range (Standard Units)	5.5-8.0	Annually	Grab {8}
Total Recoverable Lead (µg/l)	29 {9}	Annually	Composite {4}
Acenaphthene (µg/l))	570	Annually	Composite {4}
Fluoranthene (µg/l))	1,300	Annually	Composite {4}
Naphthalene (μg/l))	770	Annually	Composite {4}
Polynuclear aromatic hydrocarbons (μg/l)	{5}	Annually	Composite {4}
Benzene (μg/l)) {10}	1,800	Annually	Grab
Ethylbenzene (µg/l)) {10}	11,000	Annually	Grab
Toluene (μg/l)) {10}	5,800	Annually	Grab

mg/l = milligrams per liter = 1000 micrograms per liter ($\mu g/l$)

NOTES:

- Pollutant concentration levels shall not exceed the storm water discharge limits or be outside the ranges indicated in the table. Actual or measured levels which exceed those storm water discharge limits or are outside those ranges shall be reported to the CWB required in HAR, Chapter 11-55, Appendix B, Section 10(c).
- (2) "Annually" means once per calendar year to be submitted no later than 60 calendar days following sample collection.

The Permittee shall collect samples for analysis from a discharge resulting from a representative storm. A representative storm means a rainfall that accumulates more than 0.1 inch of rain and occurs at least 72 hours after the previous measurable (greater than 0.1 inch) rainfall event.

"Grab sample" means a sample collected during the first 15 minutes of the discharge.

"Composite sample" means a combination of at least two (2) sample aliquots, collected at periodic intervals. The composite shall be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to the total flow of storm water discharge flow since the collection of the previous aliquot. The Permittee may collect aliquots manually or automatically

Samples for analysis shall be collected during the first 15 minutes of the discharge and at 15-minute intervals thereafter for the duration of the discharge, as applicable. If the discharge lasts for over an hour, sample collection may cease.

- If the duration of the discharge event is less than 30 minutes, the sample collected during the first 15 minutes of the discharge shall be analyzed as a grab sample and reported toward the fulfillment of this composite sample specification. If the duration of the discharge event is greater than 30 minutes, the Permittee shall analyze two (2) or more sample aliquots as a composite sample.
- {5} No limitation at this time. Only monitoring and reporting is required.
- The Total Nitrogen parameter is a measure of all nitrogen compounds in the sample (nitrate, nitrite, ammonia, dissolved organic nitrogen, and organic matter present as particulates).
- {7} The Permittee shall measure Oil and Grease using EPA Method 1664, Revision A.
- {8} The Permittee shall measure pH within 15 minutes of obtaining the grab sample.
- The value listed is the minimum standard. Depending upon the receiving water CaCO₃ hardness, higher standards may be calculated using the respective formula in the U.S. Environmental Protection Agency publication Quality Criteria for Water (EPA 440/5-86-001, Revised May 1, 1987).
- {10} The Permittee shall use "Test Methods for Evaluating Solid Wastes" (EPA-SW-846-03-03B, November 004), or "Standard Methods for the Examination of Water and Wastewater" (ISBN 0-875533-047-8, 2005;), or EPA method 5030/8015, or 5030/8021B, or 5030/8260B, or 602, or 604, for the measurement of benzene, ethylbenzene, and toluene.
- 9. Revise the SWPCP should any effluent limitation or water quality standards established in HAR, Section 11-54-4, for freshwater be exceeded. The revisions shall include BMPs and/or other measures to reduce the amount of pollutants found to be in exceedance from entering the storm water runoff.
- 10. Submit any changes to information on file with the CWB as soon as such changes arise, and properly address all related concerns and/or comments to the CWB's satisfaction.

11. For future submittals include the **File No. HI R80D502** and the following certification statement in your cover letter:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- 12. Complete and submit the Notice of Cessation (NOC) Form (CWB-NOC Form) to the CWB within two (2) weeks of completion of the subject project. The CWB-NOC Form can be downloaded from our website at:

 http://www.hawaii.gov/health/environmental/water/cleanwater/forms/pdf/cwb-noc.pdf.
- 13. Know that as of the date of this letter Mr. Michael Van Woerkom of Environet, Inc., is no longer recognized as the duly authorized representative. Mr. Ferdinand Cajigal, Maui District Engineer is recognized as the duly authorized representative to submit information/documents for compliance with the NGPC conditions, except submittal of the CWB-NOC Form. A new authorized representative may be appointed by submitting a hard copy of the information on CWB NOI General Form: Item Nos. 6.c. or 6.d. Authorized Representative Information; a hard copy of Item No. 7. Certification; and the CWB NOI General Form with the revised Authorized Representative Information submitted via "Submit by Email" button.

The Permittee is responsible for obtaining other Federal, State, or local authorizations as required by law.

The receipt for the \$500 filing fee is enclosed with the copy of this NGPC to Mr. Michael Van Woerkom of Environet, Inc. If you have any questions, please contact Mr. Mark Tomomitsu of the Engineering Section, CWB, at 586-4309.

Sincerely,

Chiyome Leinaala Fukino, M.D.

Director of Health

Enclosures: 1. HAR, Sections 11-55-01 and 11-55-34 to 11-55-34.12

2. HAR, Chapter 11-55, Appendices A and B

3. Title 40, Code of Federal Regulations Citations as referenced in HAR, Chapter 11-55, Water Pollution Control, Appendix A

4. Hawaii DOH Customer Satisfaction Survey

c: Mr. Michael Van Woerkom, Environet, Inc. (w/Receipt No. 26056 for \$500 Filing Fee only)
Mr. Ferdinand Cajigal, Maui District, DO T-HWYS
(w/o encls.) [via e-mail ferdinand.cajigal@hawaii.gov only]

Mr. Roland Asakura, CWB, Maui District Health Office (w/copy of NOI only)