

Storm Water Pollution Control Plan Keehi Baseyard



Hawaii State Department of Transportation Highways Division, Oahu District Storm Water Management Program NPDES Permit No. HI S000001

RECORD OF REVISION

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2	October 2009	Revised to conform to updates at the Baseyard.	TOC, Sections 1 – 6, Fig 2-1, Appx. A - E
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Revision No.	Revision Date	Description	Sections Affected
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SWPCP Responsible Party: Maintenance Superintendent and Keehi Baseyard Supervisors (Electrical Crew, Roadway and Paving Crew, Special Services Crew, Bridge Crew, and Structures Crew)

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APPENDIX A BASEYARD SWPCP INSPECTION CHECKLIST

LIST OF ACRONYMS

Acronym Meaning

AMS Asset Management System

BMP Best Management Practice

CFR Code of Federal Regulations
CMU Concrete Masonry Unit
CWB Clean Water Branch

DA Drainage Area

DOH State of Hawaii, Department of Health

EPA U.S. Environmental Protection Agency

HDOT State of Hawaii, Department of Transportation HEER Hazard Evaluation and Emergency Response

HWY-O Highways Division, Oahu District

LEPC Local Emergency Planning Committee

NPDES National Pollutant Discharge Elimination System

NRC National Response Center

Permit NPDES Individual Permit No. HI S000001

SQG Small Quantity Generator

SWPCP Storm Water Pollution Control Plan

1.0 INTRODUCTION

Federal regulations administered by the State of Hawaii, Department of Health (DOH) through State of Hawaii, Department of Transportation (HDOT), Highways Division National Pollutant Discharge Elimination System (NPDES) Individual Permit No. HI S000001 (Permit) requires that the Keehi Baseyard implement its latest Storm Water Pollution Control Plan (SWPCP). The SWPCP is designed to protect water quality by minimizing the discharge of pollutants in storm water runoff from activities at the baseyard.

1.1 **SWPCP Implementation**

The storm water management controls described in this plan will be implemented by HDOT, Highways Division, Oahu District (HWY-O) as required by the Permit, effective September 1, 2020, Part E DOT-HWYS Baseyard Facilities and Part F.2 Storm Water Associated with Baseyards.

1.1.1 Training

Management, staff, and maintenance personnel will be provided with training on the SWPCP initially upon implementation and at least annually thereafter. Additionally, training will be conducted following any major revision to the SWPCP and will also be provided to new hires. This training will include, a discussion of potential pollutants, best management practices (BMPs), spill response procedures, and past spills. Training records will be documented and retained for five years. Baseyard personnel will be responsible for implementing controls detailed in the SWPCP and training courses.

1.1.2 Inspections

Baseyard inspections will be conducted at least semiannually to ensure the pollutant control strategies (Section 3.0) and spill prevention and response plan (Section 4.0) are being effectively carried out. All inspections will be documented on the Baseyard SWPCP Inspection Checklist (Appendix A) and retained in the Maximo Asset Management System (AMS) for five years. Corrective actions for deficiencies noted during inspections will be documented, tracked, and closed-out in the AMS.

1.2 SWPCP Revisions

The SWPCP will be reviewed as often as needed to comply with the conditions of the Permit. In the event the plan is modified, a copy of the updated SWPCP will be provided to the baseyard.

2.0 SITE DESCRIPTION

The Keehi Baseyard is located at the Keehi Viaduct, beneath the H-1 freeway in Honolulu (Figure 2-1). The baseyard has an elongated shape that is bordered on the north and south sides by the westbound lanes and eastbound lanes of Nimitz Highway, respectively. The baseyard is bordered on the east side by Moanalua Stream. An unnamed canal runs west to east through the middle of the site and drains into the Moanalua Stream. The Keehi Baseyard has the following Highways Maintenance Crews and Compounds:

- Electrical Crew
- Roadway/Paving Crew
- Special Services Crew
- Bridge Crew Compound
- Structures Crew Compound

The facility is used as a storage area for HDOT Highways maintenance supplies and equipment. Equipment and materials stored on-site include vehicles, street sweepers, vacuum trucks, trucks and trailers, and materials supplies.

The Electrical Crew occupies the western-most portion of the site. In addition, the Electrical Crew uses an area near the eastern boundary to store telephone and light poles. The Special Services Crew includes plumbers, street sweepers, and vacuum truck operators and utilizes the site primarily to store their trucks, vehicles, and parts. The Bridge Crew occupies the northwestern portion of the site (woodworking shop and storage compound) and the Structures Crew occupies the northeastern portion of the site (storage compound). There is an office building (three trailers) and vehicles stored at this baseyard are parked near the office and along the southern perimeter. The site also has a vehicle wash rack that is designed to contain, collect, treat, and recycle wash water for vehicle washing.

Berms have been placed on the land surface surrounding the unnamed canal to prevent storm water runoff or debris from flowing into the waterway. Most of the site is situated under the cover of the freeway, and therefore, is not exposed to rainfall. However, storm water can sheet flow through the site from areas located outside of the freeway viaduct overhang and from several freeway viaduct downspouts. Generally storm water on the site sheet flows to either the unnamed canal in the center of the site or the ditch located south of the site (Figure 2-1). There are no storm drain inlets located at the site and the majority of the area is impervious consisting of asphalt concrete. Areas of responsibility for the various Maintenance Crews at the Keehi Baseyard are depicted on Figure 2-2.

2.1 Site Drainage

There are no drainage inlets onsite. However, the drainage ditch along the southern boundary of the site is connected to the unnamed canal that runs through the center of the site via an underground pipeline that runs beneath the offices.

The majority of the site is under the cover of the freeway viaduct and therefore, is not exposed to rainfall. However, storm water can flow through the site from the entrance and exit to Nimitz Highway, the uncovered areas of the site, and from the freeway viaduct downspouts. Storm water runoff generally sheet flows either to the unnamed canal or the southern drainage ditch (Figure 2-1).

The storm water will enter the unnamed canal either directly or through the discharge pipe from the southern drainage ditch. The unnamed canal flows from west to east through the center of the site into the Moanalua Stream, which borders the eastern edge of the site, empties into Keehi Lagoon, that eventually empties into the Pacific Ocean.

2.2 Drainage Areas

The Keehi Baseyard is divided into three drainage areas (Figure 2-3). Drainage Area 1 (DA-1) is located in the southern and western portions of the baseyard and is bordered on the north by the unnamed canal and on the south by the eastbound lanes of Nimitz Highway. Drainage Area 2 (DA-2) is located in the southern and eastern portions of the baseyard and is bordered on the north by the unnamed canal that runs west to east through the middle of the site and drains into the Moanalua Stream. Drainage Area 3 (DA-3) is located in the northern portion of the baseyard and is bordered on the north by the westbound lanes of Nimitz Highway and on the south by the unnamed canal.

2.2.1 Drainage Area 1

The Electrical Crew, Roadway/Paving Crew, and Special Services Crew office trailers are joined together by a common deck/break area. Each individual office is used for general office duties, small handheld equipment storage, and employee washing areas (deep sinks).

Electrical Crew

The Electrical Crew occupies the western-most portion of DA-1 and includes three materials storage containers used to store limited quantities of chemicals and supplies. Various bulk electrical lighting and related components are also stored in the Electrical Crew storage area. Additionally, the Electrical Crew parks multiple vehicles and equipment (utility trucks and vans and bucket trucks) in parking areas of DA-1 (Figure 2-1).

Roadway/Paving Crew

The Roadway/Paving Crew storage area includes a single material storage container used to store limited quantities of chemicals and supplies (Figure 2-1). DA-1 also contains various parking for vehicles and equipment (utility trucks and thermal layer/asphalt application trucks) used by the Roadway/Paving Crew.

Special Services Crew

The Special Services Crew storage area contains four materials storage containers; three for the Plumbing subunit and one for the rest of the crew (Figure 2-1). Additionally, the Special Services

Crew parks multiple vehicles and equipment (utility trucks, street sweepers, vacuum trucks, herbicide application trailer) in the parking areas of DA-1.

As indicated in Figure 2-1, a hazardous waste storage area is designated at the entrance of the baseyard, and is also located in DA-1, close to the guard shack. The hazardous waste storage area is enclosed with a concrete masonry unit (CMU) wall and a chain link gate with lock. Spill pallets have been supplied for the hazardous liquid storage and proper signage is provided. Keehi Baseyard is considered a Small Quantity Generator (SQG) for hazardous wastes. Hazardous wastes stored include but are not limited to used oil, paints, and batteries. Most of the wastes stored in the hazardous waste storage area are wastes that have been abandoned along the State highways and removed by various maintenance crews.

DA-1 is situated under the cover of the freeway, and therefore, is not exposed to rainfall. However, storm water from six freeway viaduct downspouts sheet flows from southwest to northeast on the western portion of the DA and from southeast to northwest on the eastern portion of the DA. As indicated in Figure 2-3, all storm water from DA-1 generally sheet flows either into the unnamed canal or percolates into the ground.

Potential pollutants in this drainage area include:

- Small quantities of petroleum (gasoline, motor oil, hydraulic oil) are secured within flammable storage lockers or truck-mounted dispensing tanks.
- Small quantities of herbicides are secured within storage lockers and on containment pallets.
- Minor leaks (drips) of oils and lubricants associated with vehicular traffic.
- Miscellaneous hazardous waste and/or hazardous materials.

Routine Runoff

Generally, routine runoff from the facility may consist of dust and silt that may have been deposited either by the wind or from vehicular traffic. Dust and silt may affect water quality parameters such as total suspended solids and turbidity. As is expected from areas with vehicular activity, potential for minor amounts of petroleum to enter runoff also exists.

Non-Routine Runoff

Non-routine runoff may be a result of spillage, leaks, fuel dispensing, routine maintenance operations, overflow from the wash rack, failure of BMPs, or other emergency conditions (i.e., major equipment leaks).

Non-routine runoff may be a result of spillage, leaks, failure of BMPs, or other emergency conditions (i.e., major equipment leaks). Such incidents will be addressed immediately as described in the Spill Prevention and Response Plan (see Section 4.0). The grade of DA-1 is such that spills in the operational portions would migrate towards the center of the parking lot.

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

- Spills and leaks from chemicals and equipment
- Fueling of equipment (e.g. topping off motor oil)
- Storage of vehicles and equipment
- Rubbish and litter
- Improper disposal of chemicals
- Chemical storage container failure
- Improper storage of chemicals (i.e. container deterioration, exposure to rain, no secondary containment)
- Improper storage of miscellaneous hazardous materials and solid waste debris
- Major equipment leaks
- Inadequate use of berms around unnamed canal
- Poor spill response management

2.2.2 Drainage Area 2

DA-2 includes a vehicle wash rack (Figure 2-1) that is designed to contain, collect, treat, and recycle wash water for vehicle washing. Various vehicles and equipment from HWY-O are washed by a Service Contractor that operates the wash rack. The Special Services and Roadway/Paving Crew parks multiple vehicles and equipment in the parking areas of DA-2 including water tankers, lowboys, loaders, backhoes, excavators, and dump trucks. Additionally, the Electrical Crew stores creosote-treated wooden telephone poles in DA-2.

Roadway/Paving Crew

The baseyard is also used to temporarily store solid wastes picked up from HDOT Highways' right-of-ways throughout Oahu, prior to transport and disposal at an appropriate facility. The Roadway/Paving Crew is responsible for maintaining the solid waste storage area located in the southeastern corner of DA-2. As indicated in Figure 2-1, the waste storage area contains green wastes, street sweeping debris, solid waste debris, tires, mattresses, and scrap metal that were anonymously abandoned and collected from HDOT right-of-ways. Raw materials such as cold asphalt mix, gravel and sand are stored in bins along the eastern border of the baseyard. These waste and raw material storage areas are situated in CMU and/or jersey barrier bins.

For the most part, DA-2 is situated directly under the cover of the freeway, with only a small portion of the active roadway in this area exposed to rainfall. Additionally, storm water from seven

freeway viaduct downspouts sheet flows from the perimeter of DA-2 to the center if this area where storm water generally percolates into the ground (Figure 2-3).

Potential pollutants in this drainage area include:

- Soaps, detergents, and wash waters associated with washing activities at the wash rack. Wash waters are normally contained by the wash rack system.
- Small quantities of petroleum products from equipment and vehicles in the parking lot.
- Street sweepings.
- Green waste and miscellaneous solid waste debris stored in the waste storage area.
- Raw materials, such as sand and gravel stored on-site.

Routine Runoff

Generally, routine runoff from the facility may consist of dust and silt that may have been deposited either by the wind or from vehicular traffic. Dust and silt may affect water quality parameters such as total suspended solids and turbidity. As is expected from areas with vehicular activity, potential for minor amounts of petroleum to enter runoff also exists.

Non-Routine Runoff

Non-routine runoff may be a result of overflow from the wash rack, failure of BMPs, or other emergency conditions (i.e., major equipment leaks). Such incidents will be addressed immediately as described in the Spill Prevention and Response Plan (see Section 4.0).

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

- Vehicle and equipment washing
- Wash rack overflows
- Rubbish and litter
- Improper disposal of chemicals
- Improper storage of solid waste (i.e. exposure to rain, no BMPs)
- Improper storage of raw materials
- Major equipment leaks
- Poor spill response management
- Storage of vehicles and equipment

- Street sweeping storage
- Inadequate use of berms around unnamed canal and Moanalua Stream

2.2.3 Drainage Area 3

Bridge Crew

The Bridge Crew occupies the northwestern portion of DA-3 and utilizes this area primarily to store dry goods associated with bridge maintenance and repair. This area includes four materials storage containers used to store limited quantities of chemicals and supplies. The Bridge Crew also utilizes a woodworking shop located in this area (Figure 2-1).

Structures Crew

The Structures Crew occupies the northeastern portion of DA-3 (Figure 2-1) and utilizes this area primarily to store dry goods associated with structures maintenance and repair (guardrails, sand barrels, crash attenuators). This area also includes raw materials such as gravel and sand for cement mixing operations stored in jersey barrier bins.

Electrical Crew

As indicated on Figure 2-1, the Electrical Crew uses an area near the central portion of DA-3 to store galvanized light poles.

All of DA-3 is situated under the cover of the freeway, and therefore, is not exposed to rainfall. Storm water from six freeway viaduct downspouts sheet flows from northeast to the southwest in the western portion of the DA and from the north to south on the eastern portion of the DA. As indicated in Figure 2-3, all storm water from DA-3 generally sheet flows either into the unnamed canal or percolates into the ground.

Potential pollutants in this drainage area include:

- Raw materials, such as sand and gravel stored on-site.
- Minor leaks (drips) of oils and lubricants associated with vehicular traffic
- On-site storage of hazardous materials for all crews.

Routine Runoff

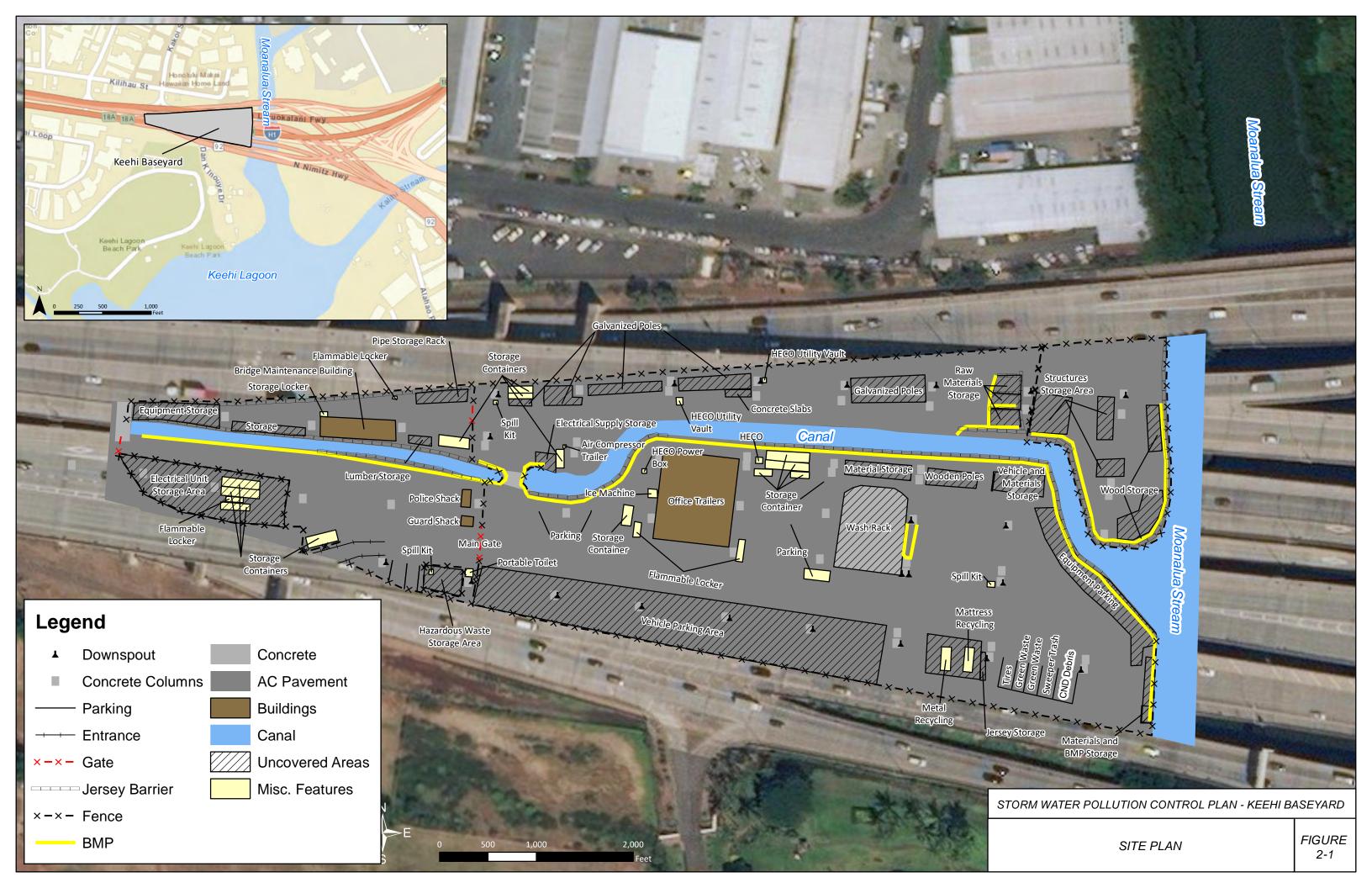
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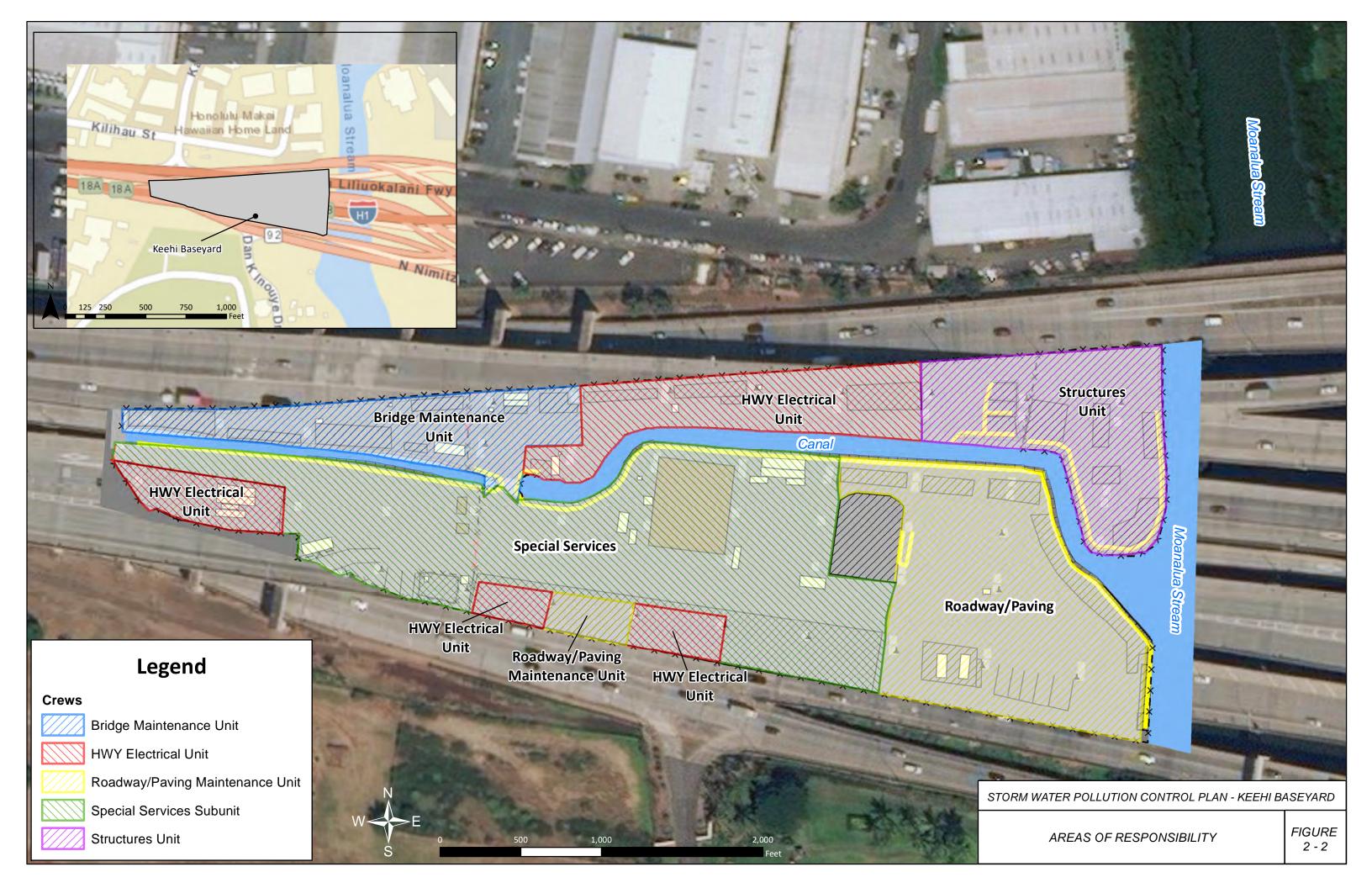
Non-Routine Runoff

Non-routine runoff may be a result of failure of BMPs, or other emergency conditions (i.e., major equipment leaks). Such incidents will be addressed immediately as described in the Spill Prevention and Response Plan (see Section 4.0).

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

- Rubbish and litter
- Improper disposal of chemicals
- Chemical storage container failure
- Improper storage of chemicals (i.e. container deterioration, exposure to rain, no secondary containment)
- Improper storage of raw materials
- Inadequate use of berms around unnamed canal
- Poor spill response management







3.0 POLLUTION CONTROL STRATEGIES

3.1 General Operating Conditions

The Keehi Baseyard has been divided into 12 functional areas:

- Office Buildings
- Vehicle and equipment driveways
- Vehicle and equipment parking areas
- Electrical Crew Storage Areas
- Roadway Crew Storage Areas
- Special Services Crew Storage Areas
- Bridge Crew Storage Areas
- Structures Crew Storage Areas
- Hazardous Waste Storage Area
- Vehicle and Equipment Wash Rack
- Solid Waste and Raw Material Storage
- Unnamed Canal and Moanalua Stream

Figures 3-1 to 3-12 present photographs of each functional area of the baseyard taken in their ideal operating condition. These photographs can be used for baseyard crews and inspection teams as a quick reference of how each functional area of the baseyard should appear. Deficiencies identified in the field should be corrected immediately to minimize the potential for pollution of storm water runoff.

FIGURE 3-1: BASEYARD FUNCTIONAL AREAS – OFFICE BUILDINGS







FIGURE 3-2: BASEYARD FUNCTIONAL AREAS – VEHICLE AND EQUIPMENT DRIVEWAYS







FIGURE 3-3: BASEYARD FUNCTIONAL AREAS – VEHICLE AND EQUIPMENT PARKING AREAS







FIGURE 3-4: BASEYARD FUNCTIONAL AREAS – ELECTRICAL CREW STORAGE AREAS





FIGURE 3-5: BASEYARD FUNCTIONAL AREAS – ROADWAY CREW STORAGE AREAS





FIGURE 3-6: BASEYARD FUNCTIONAL AREAS – SPECIAL SERVICES CREW STORAGE AREAS

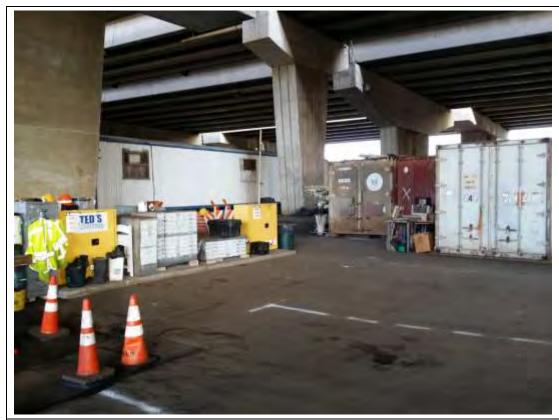




FIGURE 3-7: BASEYARD FUNCTIONAL AREAS – BRIDGE CREW STORAGE AREAS





FIGURE 3-8: BASEYARD FUNCTIONAL AREAS – STRUCTURES CREW STORAGE AREAS







FIGURE 3-9: BASEYARD FUNCTIONAL AREAS – HAZARDOUS WASTE STORAGE AREA







FIGURE 3-10: BASEYARD FUNCTIONAL AREAS – VEHICLE AND EQUIPMENT WASH RACK







FIGURE 3-11: BASEYARD FUNCTIONAL AREAS – SOLID WASTE AND RAW MATERIAL STORAGE





3.2 Best Management Practices

BMPs will be utilized at the baseyard to minimize and control potential pollutants from baseyard activities. Figures 3-13 to 3-20 include a list of activities associated with the baseyard and photos of BMPs that may be implemented at the Keehi Baseyard; this list may not include all specific activities that are conducted.

FIGURE 3-13: GOOD HOUSEKEEPING

1. Baseyard Sweeping



Sweep baseyard areas at least once per week and additionally as needed to remove accumulated sediment and debris and to prevent tracking.

Potential Pollutant—Sediment, Metals, Rubbish



2. Solid Waste Disposal



Properly dispose of rubbish on a regular basis and before storage areas are overfilled.

Ensure that waste stockpiles are covered and wastes are contained to prevent contact with storm water.

Potential Pollutant—Sediment, Metals, Rubbish

FIGURE 3-13: GOOD HOUSEKEEPING

3. Parking Lot Maintenance



Clean any parking area oil stains that produce a sheen when wet.

Potential Pollutant-

Petroleum, Oil, Lubricants

4. Spill Kits



Ensure that spill kits are located in easily accessible locations (i.e. main office) so that personnel can respond to spills.

Replenish spill kits when used, or as needed.

Ensure that spill materials are cleaned up following use and properly disposed.

Potential Pollutant-

Various used absorbents

FIGURE 3-14: BASEYARD OPERATIONS

1. Motor Vehicle Servicing



Utilize spill containment materials whenever there is the potential for fluid leaks or spills (i.e., topping off fluids, long term storage of vehicles, etc.).

Potential Pollutant—Vehicle fluids

2. Herbicide Usage



Ensure that herbicides are mixed and managed to minimize contact with storm water.

Store herbicide in covered storage and/or secondary containment.

Follow the HDOT Chemical Application Plan for herbicide usage guidelines.

Potential Pollutant— Herbicides

3. Painting



Do not paint in the rain or when rainfall is anticipated.

Ensure that wet paints are not mobilized to drainage areas.

Clean brushes and dispose of paint waste in accordance with product label. Ensure that paint is not cleaned out in the dirt, street, or other drainage way.

Potential Pollutant—Paints, Solvents

FIGURE 3-14: BASEYARD OPERATIONS

4. Carpentry



Sweep sawdust following carpentry operations or at the end of each work day and dispose in a covered solid waste container.

Potential Pollutant— Sawdust

FIGURE 3-15: WASHING

1. Motor Vehicle Washing



Wash all vehicles and equipment in the designated wash rack.

Ensure that containers and materials utilized for washing activities are properly stored according to the product label or disposed following washing.

Potential Pollutant-

Surfactants, Sediment, Fuel, Oils, Metals



2. Facility/Other Washing



Ensure that all water utilized for washing activities is contained. Containment can include connecting to the sanitary sewer.

Do not discharge wash-water into drainage areas or onto the ground.

Potential Pollutant-

Surfactants and other pollutants that may be on hands and other surfaces

FIGURE 3-16: FUELING

1. Equipment Fueling



Visually inspect portable fuel transfer tanks and hoses for cracks and leaks.

Store fuel containers within secondary containment (i.e. flammable storage lockers).

Ensure that hand-held equipment fueling activities are conducted within secondary containment.

Cleanup spilled fuels immediately. Ensure that fuels are not mobilized to drainage areas.

Potential Pollutant—Gasoline, Diesel

FIGURE 3-17: VEHICLE AND EQUIPMENT STORAGE

1. Parking (HDOT and Employee Vehicles)



Visually inspect vehicles for leaks and use drip pans or pads where necessary. Ensure that drip pan is not overfilled with leaking materials or storm water.

Potential Pollutant-

Oil, Gasoline, Diesel, Coolant, Hydraulic Fluid, Metals, Sediment

2. Handheld Equipment Storage



Ensure that handheld equipment is managed to minimize contact with storm water.

Store handheld equipment within drip pans or on absorbent pads when not in use.

Potential Pollutant-

Oil, Gasoline

FIGURE 3-18: MATERIAL STORAGE

1. Material Storage





Store materials in compatible containers that are in good condition (i.e. not rusting, leaking, or deteriorating) and closed when not in use.

Store liquid materials under cover.

Potential Pollutant-

Various hazardous materials (i.e., Petroleum, Oil, and Lubricants; Herbicides; Paint)

2. Metal Storage



Ensure that metals are managed to minimize contact with falling rain and storm water flowing on the ground.

Store metals in a covered area or with a tarpaulin, if metals are rusting.

Potential Pollutant– Rusting Metal

FIGURE 3-18: MATERIAL STORAGE

3. Stockpile Storage





Ensure that stockpile contact with storm water is minimized.

Contact may be prevented with berms, jersey barriers, walls, tarpaulins, or another effective method.

Ensure that stockpiled material does not have the potential to wash away and enter baseyard drainage areas.

Potential Pollutant-

Sand, Dirt, Gravel, Sweeper Waste, Green Waste, Asphalt

FIGURE 3-19: WASTE MANAGEMENT

1. Managing Wastes Generated On-Site and Obtained from Highways Right-of-Ways





Separate wastes into categories and do not mix:

- Solid waste (i.e. general rubbish)
- Green waste
- Bulk items (i.e. mattresses, tires, etc.)
- Hazardous waste
- Universal waste

Ensure that wastes are managed to minimize contact with storm water.

Dispose as soon as possible.

Potential Pollutant— Rubbish, Green Waste, Miscellaneous Waste

2. Hazardous Waste and Universal Waste



Ensure that hazardous wastes and universal wastes are managed to minimize contact with storm water and in compliance with SQG requirements.

Place wastes in designated locations.

Potential Pollutant-

Miscellaneous Hazardous Waste, Miscellaneous Universal Waste

FIGURE 3-20: STRUCTURAL BMPS

1. Vehicle Wash Rack





Perform routine maintenance of wash rack system, including oil water separator, to ensure proper functioning.

Visually inspect the wash rack sump and oil water separator filtration system. Remove and dispose of accumulated sediment and debris from the sump properly.

Potential Pollutant-

Surfactants, Sediment, Petroleum, Oils, Lubricants, Metals

2. Downspout Berms



Berms are placed to minimize the discharge of pollutants from the highway onto the baseyard.

Ensure that accumulated debris is cleared out and berms are in good condition.

Potential Pollutant-

Sediment, Cigarette butts, Metals, Oils, Fuels, Rubbish, and Vegetation

4.0 SPILL PREVENTION AND RESPONSE

Spills of materials used and stored at the Keehi Baseyard can discharge to State waters and contaminate storm water runoff. A Spill Prevention Response Plan is provided here to address that risk.

Spill Prevention and Response Plan

Purpose	Provide procedures to follow in the event a spill occurs
Personnel-In-Charge of Implementation	Maintenance Superintendent with support of Keehi Baseyard Supervisors
Resources	Table 4-1: Checklist of Procedures Table 4-2: Pertinent Contact Numbers Table 4-3: Spill Response Documentation Form (spills in excess of 25 gallons or more)
Documents to Maintain	Spill Response Documentation Forms (kept by HWY-O)
Recent (within 5 years) spills of toxic or hazardous pollutants	None
Discharges of storm water resulting in reportable quantity triggering notification under 40 Code of Federal Regulations (CFR) 110.6 since 11-16-1987	None

TABLE 4-1: SPILL RESPONSE PROCEDURE

	SPILL RESPONSE PROCEDURE	✓
1	Stop work.	
2	Assess the situation: Source of Release (Stop the source of the spill, if it can be done safely) Notify Others. Call 911 if an emergency situation occurs. Inform the Baseyard Supervisors of all spills. Type of Material Spilled and Associated Hazards. If the material is flammable, ensure that all sources of ignition are removed (i.e. turn off vehicles, prohibit smoking, evacuate unnecessary personnel) Location of Release (i.e. HDOT right of way? pavement vs. soil?). Total Amount and Rate of Release. Potential for Surface Water Impacts. Deploy BMPs to protect storm drains and other surface water bodies.	
3	Can the spill be cleaned up with baseyard staff and supplies? If yes – <i>continue to Step 4</i> . If no – <i>skip to Step 10</i> .	
4	Assign personnel to clean the spill and don appropriate personal protective equipment.	
5	Remove any incompatible materials from the area. This may include prohibiting smoking and the starting of vehicle engines.	
6	Begin spill clean-up efforts by ensuring that the source of the spill has been stopped. This may include closing valves, repairing equipment, or plugging holes.	
7	Confine the spill perimeter using absorbent material such as clay granules, sand, and/or soil. Ensure that drainage ways are blocked.	
8	Clean the remainder of the spill using absorbent material and a broom or vacuum. *Important: Never use a water source for cleaning unless the water is contained.	
9	Dispose of cleaning materials and personal protective equipment properly. Skip to Step 13.	
10	Evacuate all personnel from the spill vicinity and move to the evacuation assembly area near the entrance gate on the outside of the facility fence-line. See Figure 2-1 for location.	
11	Call the Emergency Coordinator who will notify or designate someone to notify the Spill Response Contractor from Table 4-2.	
12	Take note of spill clean-up actions performed by the baseyard personnel and/or Spill Response Contractor.	

	SPILL RESPONSE PROCEDURE	✓
13	The Emergency Coordinator or designee will notify the appropriate authorities from Table 4-2, if required.	
14	The Emergency Coordinator or designee completes Table 4-3, Spill Response Documentation Form.	

TABLE 4-2: EMERGENCY SPILL CONTACT INFORMATION

Note: The reportable quantity for oil and fuel products is a spill of 25 gallons or more, a spill not cleaned within 72 hours, or a spill that threatens ground or surface waters. Notification of the National Response Center (NRC) is NOT required for releases of oil – only notification of State and County agencies are required for these substances.

Contact	Telephone Number
Emergency (Medical Assistance, Fire Department, Police Department) If there is an emergency or life-threatening situation, 911 should be called first.	911
Supervisor	
The Supervisor should be notified of all spills so that they can contact the Emergency Coordinator.	Varies
Maintenance Superintendent, Emergency Coordinator	
The Maintenance Superintendent or designee should be notified of all spills so that they can act as the Emergency Coordinator for response efforts, which includes coordinating clean-up response, notifying the appropriate parties, and completing relevant forms.	(808) 837-8058 or (808) 258-3269
Spill Response Contractor	
The current spill response contractor (Pacific Commercial Services) should be notified by the Emergency Coordinator or designee for assistance when a spill is beyond the baseyard's capacity for removal or to dispose of spent absorbents.	(808) 545-4599
National Response Center (NRC)	
The Emergency Coordinator or designee should call the NRC to report any spill of hazardous materials of a reportable quantity. The NRC will notify the appropriate Federal On-Scene Coordinator (Environmental Protection Agency - EPA) and various state agencies. [Note: Notification of the NRC is NOT required for releases of oil—only notification of State/County agencies are required for these substances.]	(800) 424-8802
DOH Hazard Evaluation and Emergency Response	
(HEER) Office (Oahu)	(000) 506 1210
The Emergency Coordinator or designee should notify the HEER office of any chemical spill of a reportable quantity. [Note: Reportable quantity for oil and fuel products is a spill of 25 gallons or more, a spill not cleaned within 72	(808) 586-4249 (808) 247-2191 (after hours)

hours, or a spill that threatens ground or surface waters. A written notification must also be submitted no later than thirty (30) days after the initial release.	
DOH Clean Water Branch (CWB) (Oahu)	
The Emergency Coordinator or designee should notify the CWB of any spills of any chemical of a reportable quantity immediately by telephone. A written notification must also be submitted no later than thirty (30) days after the initial release.	(808) 586-4309
U.S. Coast Guard Marine Safety Office (Oahu)	
The Emergency Coordinator or designee should notify the U.S. Coast Guard of any quantity spill that reaches the ocean.	(808) 522-8260
Local Emergency Planning Committee (LEPC)	
The Emergency Coordinator or designee should notify the LEPC of any reportable quantity spill. After business hours, leave a message including name, phone number, time of spill, what was spilled, and quantity of spill.	(808) 723-8960

TABLE 4-3: SPILL RESPONSE DOCUMENTATION FORM

Date of Incident:	Time:
Reported by:	
Location of Incident:	
Description of Incident:	
Nature of Release (Paint, herbicide, oil/grease, concrete, etc.):	
Cause/Source of Release:	
Quantity of Release:	
Immediate response measures taken:	
Regulatory Agency Notifications:	

Copies of the completed Spill Response Documentation Form shall be kept in the Keehi Baseyard SWPCP binder and with the Environmental Management Section Head

5.0 REFERENCES

- State of Hawaii, Department of Transportation, Highways Division. February 2013. *Environmental Management System Manual*.
- State of Hawaii, Department of Transportation, Highways Division. September 1, 2020. *National Pollutant Discharge Elimination System, Permit Number HI S000001*, expires August 31, 2025.
- State of Hawaii, Department of Transportation, Highways Division. April 2015. *Storm Water Management Program Plan*.

APPENDIX A BASEYARD SWPCP INSPECTION CHECKLIST

BASEYARD SWPCP INSPECTION CHECKLIST

Facility Name:	Keehi Baseyard, Highways Division, Department of Transportation						
Inspector's Name & Title:							
Date & Time of Inspection:							
Weather: [Raining		Cloudy		Sunny	Rain in 24 hrs? Yes	☐ No
ISSUE BEING EVALUAT	TED	YES	NO	N/A		COMMENTS	
SWPCP AND DOCUMENTATION							
Is the SWPCP onsite?							
Has the SWPCP map been update current baseyard conditions?	ed to reflect						
Are there any changes needed to the SWPCP based on the current observed baseyard conditions?							
Are the inspection reports onsite?							
Is the National Pollutant Discharg Elimination System NPDES perm							
Is the employee training current a documented?	nd						
Have any spills of a reportable quantity (25-gallons or more) been reported and/or documented since last inspection?							
GOOD HOUSEKEEPING							
Are paved areas that are potential to storm water generally free and accumulated sediment and debris?	clear of						
Are the rubbish bins covered?							
Is rubbish managed to prevent over of waste storage containers and/or of contact with storm water, if necessity is not contact with storm water, if necessity is not contact.	prevention						

ISSUE BEING EVALUATED	YES	NO	N/A	COMMENTS
Are the drainage areas (culvert, diversion channel, downspouts) clear of debris?				
Are there any oil stains present that produce a sheen when wet?				
Are spill kits available and stocked?				
Are spent spill cleanup materials properly disposed of?				
Other:				
BASEYARD OPERATIONS				
Are drip pans or hydrocarbon absorbing pads utilized whenever there is the potential for fluid leaks or spills?				
Are saw dust or metal shavings swept at completion of the job or at end of the shift?				
Are herbicides mixed and managed to minimize contact with storm water?				
Are painting activities and cleanup conducted to minimize contact with storm water?				
Other:				
WASHING				
Are all vehicles and equipment washed at the wash rack?				
Are containers and materials utilized for washing activities properly stored according to the product label or disposed following washing?				
Is the wash area (including trench drain and sump, if applicable) free of rubbish, sediment, oils and grease, etc.?				
Other:				
Fueling				
Are portable fuel transfer containers and hoses cracked or leaking?				

ISSUE BEING EVALUATED	YES	NO	N/A	COMMENTS
Are fuel containers managed to minimize contact with storm water?				
Are fuel spills present that are exposed to storm water?				
Other:				
VEHICLE AND EQUIPMENT STORAGE				
Are salvage equipment leaking fluids and if so, managed to minimize contact with storm water?				
If necessary, are drip pans utilized and in good condition and placed properly under equipment?				
Are drip pans filled or overflowing with rainwater and/or petroleum products (oil and grease, etc.)?				
Is handheld and/or portable equipment (i.e. chainsaw, weed whacker, generator, tamper, etc.) managed to minimize contact with storm water?				
Other:				
MATERIAL STORAGE	•			
Are materials managed to minimize contact with storm water?				
Are rusting metal pieces managed to minimize contact with storm water?				
Are highway construction and maintenance related items managed to minimize contact with storm water?				
Are green wastes, gravel, sand stockpiles managed to minimize contact with storm water?				
Are BMPs that are utilized for material containment in good condition and working effectively?				
Other:				
WASTE MANAGEMENT				

ISSUE BEING EVALUATED	YES	NO	N/A	COMMENTS		
Are wastes appropriately separated according to operational disposal requirements and managed to minimize contact with storm water?						
Does waste need to be transferred offsite for final disposal?						
Have all hazardous and universal wastes been stored properly and managed to minimize contact with storm water?						
Other:						
STRUCTURAL BMPS						
Is the wash rack properly maintained (per posted standard operating procedures and signage)?						
Other:						