

**STORM WATER POLLUTION CONTROL PLAN  
MOLOKAI AIRPORT**

Prepared For:

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
Airports Division  
400 Rodgers Boulevard, Suite 700  
Honolulu, Hawaii 96819-1880**

Prepared By:

**ENVIROSERVICES AND TRAINING CENTER, LLC  
505 Ward Avenue, Suite 202  
Honolulu, Hawaii 96814  
Tel: (808) 839-7222**

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## LIST OF ACRONYMS

ARFF	Aircraft Rescue and Fire Fighting
BMP	Best Management Practice
CFR	Code of Federal Regulations
CWA	Clean Water Act
CWB	Department of Health, Clean Water Branch
DOH	State of Hawaii, Department of Health
DOT-A	State of Hawaii, Department of Transportation, Airports Division
DOT-H	State of Hawaii, Department of Transportation, Highways Division
EC	Emergency Coordinator
EMP	Environmental Management Plan
HAR	Hawaii Administrative Rules
HEER	Hazard Evaluation and Emergency Response
HRS	Hawaii Revised Statutes
MKK	Molokai Airport
MOU	Memorandum of Understanding signed March 29, 2000 between DOH and DOT
MSDS	Materials Safety Data Sheet
NGPC	Notice of General Permit Coverage
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
OWS	Oil Water Separator
PPE	Personal Protective Equipment
SWPCP	Storm Water Pollution Control Plan
TKN	Total Kjeldahl Nitrogen

## **1.0 INTRODUCTION**

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Federal regulations administered by the State of Hawaii, Department of Health (DOH) in Hawaii Administrative Rules (HAR) Chapter 11-55 Appendix B require that facilities which engage in industrial activity as defined in 40CFR §§ 122.26 (b)(14)(i) through 122.26 (b)(14)(ix) and 122.26 (b)(14)(xi) obtain National Pollutant Discharge Elimination System (NPDES) General Permit Coverage of storm water associated with industrial activities. Molokai Airport Facility at Hoolehua, Hawaii is classified as an industrial facility therefore the State of Hawaii Department of Transportation, Airports Division (DOT-A) is required to obtain a general permit coverage under Appendix B. The purpose of the regulations is to protect water quality by reducing the amount of pollutants in storm water runoff caused by covered industrial activities. A Notice of Intent (NOI) and a Storm Water Pollution Control Plan (SWPCP) are required to be submitted by DOT-A to the DOH Clean Water Branch (CWB).

A Memorandum of Understanding (MOU) between the DOH and DOT, signed March 29, 2000, gave the Director of DOT and appointed DOT employees additional delegated powers pertaining to investigation and enforcement against illicit discharges to State Waters by outside parties. This MOU will be utilized by the DOT to better comply with water quality permits for its NPDES permitted airports: Honolulu International Airport, Molokai Airport, Kahului Airport, Lihue Airport, and Dillingham Airfield.

DOT-A was granted Notice of General Permit Coverage for the Molokai Airport industrial storm water discharges effective June 22, 2005 under File No. HI R80A413. Coverage under the General Permit expired on November 6, 2007 and was administratively extended by the DOH (Appendix H). This SWPCP is an update and will replace all previous SWPCP for Molokai Airport upon approval.

### **1.1 SWPCP Implementation**

HAR Chapter 11-55 Appendix B states that the permittee shall develop and implement a SWPCP to minimize the discharge of pollutants in storm water runoff and to maintain compliance with the conditions of this general permit. The storm water management controls of this plan will become a DOT-A procedure and an up to date copy of the SWPCP shall be maintained on site upon approval of the plan. Airport management staff, maintenance personnel, and Aircraft Rescue and Fire Fighting Unit (ARFF) will be involved in identifying and disposing of hazardous materials and other pollutants from the airport. Implementation and enforcement of the permit conditions and SWPCP are the responsibility of the Airport District Manager. The tenants will be responsible for their respective discharges, although, DOT-A personnel will monitor and enforce compliance through the terms of the tenant leases and the above mentioned MOU.

### **1.2 Updating the SWPCP**

DOH may require SWPCP modifications after review of this document. Additionally, DOT-A will modify the plan when major changes to the airport facility are made that may change the potential for discharge of pollutants in storm water runoff. At least annually, the SWPCP will be reviewed for effectiveness and revisions will be made if needed. In the event the plan is modified, a copy of the updated SWPCP will be forwarded to DOH for approval.

## **2.0 SITE DESCRIPTION**

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Molokai Airport (MKK) is located on the flat plateau of Hoolehua on the Island of Molokai (Appendix A - Figure 1) and covers an area of approximately 287 acres. MKK is owned and operated by the DOT-A and occupies tax map keys Zone 5, Section 2, Plat 4 parcels :8, :51, :63, :64, :83, :84, :106, :107, :110, :115, :116, :117, :118, :120, :122. Land surrounding the facility is dedicated to pineapple cultivation, livestock grazing, and other agricultural practices.

MKK provides two paved runways, two taxiways paralleling the main runway, and a small general aviation parking apron (Appendix A - Figure 2). There is a passenger terminal, parking lot areas, and ARFF station just north of the center of the runway area. The DOT-A maintenance baseyard and tenant rental car baseyard are north of the passenger terminal and parking lot. The remainder of the facility, aside from the airport tower and roads, are relatively flat, grassed areas (Appendix B – Facility Photos).

The climate in the area of MKK is marked by seasonal variation in rainfall and small variations in temperature. The average monthly temperature has the range of 72°F to 79°F. Annual rainfall totals ranges from 20 to 25 inches, most of which occurs between November and April.

The airport has a 6-foot tall perimeter fence and guards for security. The airport tower has a 360° view of the runways and the rest of the facility.

### **2.1 Drainage System Description**

The airport is drained by several different drainage systems and receives runoff from three drainage basins within the facility, labeled A, B, and C on facility map (Appendix A - Figure 2). A combination of surface discharges flow through drainageways which route runoff to the Kaluapeelua Gulch enroute to the Pacific Ocean shoreline. Regulated drywells are used to dispose of the remainder of the storm water runoff from the facility. The flow charts for the three basins are in Appendix C.

#### **2.1.1 Offsite Runoff**

Approximately 150 acres of agricultural lands north of Keonelele Avenue drain southward, resulting in a design storm (5-year interval) runoff of approximately 400 cubic feet per second. This runoff flows westward along Keonelele Avenue toward the natural drainageway along Launui Street. A portion of the runoff is discharged into the open ditch along Runway (RW) 17-35 which flows along the southwest end of Taxiway A and is discharged into the natural drainageway along Launui Street. A concrete-lined open ditch drains an area east of RW 5-23 and discharges into the Basin C outlet. Therefore, the offsite storm water runoff is diverted around the perimeter of the MKK site.

#### **2.1.2 Drainage Basin A**

Storm water runoff from the southwest end of RW 5-23, Taxiway A, and the infield is drained by a series of grated inlets that are discharged into a permitted drywell located on the infield. Runoff from the remainder of Basin A sheet flows into the open ditch that runs along RW 17-35, commingles with offsite runoff, and exits the airport at MKK 001. This discharge crosses Launui Road and eventually Maunaloa Avenue enroute to the Kaluapeelua Gulch.

### **2.1.3 Drainage Basin B**

Storm water runoff from Basin B drains south in an open swale at outlet MKK 002. The runoff exits the facility under Maunaloa Avenue through a culvert.

### **2.1.4 Drainage Basin C**

Four inlets located between RW 5-23 and the taxiway drain into a pipe leading south under the runway which in turn drains to a swale just outside the fence line. The paved air carrier parking apron and adjacent taxiway flow into these drains. The point where this swale exits the airport, outlet MKK 003, will be utilized as a storm water monitoring site. The runoff eventually joins with offsite runoff that originated east of the facility and crosses under Maunaloa Avenue.

Storm water runoff from the paved public parking area flows toward the terminal and is disposed of in one of the two drywells located on either end of the terminal building or in the drywell near the west side of the ARFF station. The dry wells have UIC permits for disposal of storm water runoff (Appendix A - Figure 2.1 and Appendix I).

## **2.2 Site Activities and Tenants**

Tenants listed in Appendix D lease landside airport operations space. Most of the tenants are located around the passenger terminal and are classified as commercial or as office space. The DOT-A Maintenance Baseyard and Alamo Rental Car Baseyard are located northwest of the passenger parking area and are classified as industrial and are subject to inspections by DOT-A Environmental Health Specialists. The major activities performed at the Alamo Rental Car Baseyard, as they relate to this plan, are washing and fueling the cars between rentals – no engine maintenance is performed at the airport. The activities of the tenants near the terminal include cargo handling, greeters, airline service counters, and minor aircraft maintenance. The ground service equipment (GSE) diesel fuel is brought to the Molokai Airport daily by the tenants in five gallon fuel containers and are stored on secondary containment pallets. Fueling of the GSE is done on the west end of ARFF Station. The DOT-A baseyard's major activities are minor vehicle repair, fueling, maintenance, and washing. Storm water runoff from the tenants and the baseyard would be discharged to the three drywells mentioned in the terminal description.

### 3.0 POTENTIAL POLLUTANTS IN STORM WATER

The table below lists some of the possible pollutants present in the storm water runoff from the facility by their source. The predominant activities of the airport include aircraft maintenance, ground support/service, and vehicle maintenance. Potential pollutants derived from these activities include various petroleum products. Also cargo may contain unknown pollutants that may affect the runoff if not handled with care. Significant spills (see Section 5.3) of this nature are reported to the ARFF station for containment/evaluation and DOT-A personnel and/or airport tenants will be responsible for cleanup. Aircraft are not refueled at MKK and there are no underground storage tanks. There are two ASTs located in the Molokai Airport Facility – DOT-A (500 gallons gasoline/500 gallons diesel) and Alamo (1000 gallons gasoline). The tanks are double walled providing secondary containment for each AST.

**TABLE 1: LIST OF POTENTIAL POLLUTANTS BY SOURCE**

POTENTIAL POLLUTANT	SOURCE(S)
Petroleum Fuels	Fueling Areas, ASTs
Detergent, Solids	Vehicle Washing
Oils	Vehicle Maintenance / Leaking Equipment
Solvents	Vehicle Maintenance
Herbicide	Applied to Control Weeds Along Runway and Fenceline

#### 3.1 Recent Analytical Data on Quality of Storm Water Runoff from Facility

The latest storm water monitoring data was obtained December 3 and 4, 2009 and all parameters were within the limits detailed in the NPDES permit. The Discharge Monitoring Report and laboratory results are located in Appendix G.

#### 3.2 Department of Transportation Recent Spill of Pollutants

According to MKK ARFF there have been no significant spills or leaks occurring on airport property between 2005 and 2010. DOT-A personnel have never observed the four drywells overflow. If they did, an overflow sample would be taken, analyzed, and the non-compliance reported to DOH following Section 5.3 of this plan.

#### **4.0 NON-STORM WATER CONTROL**

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Currently, there is no source of non-storm water that is allowed to commingle with storm water discharges at MKK. The following is a list of non-storm water sources and how they are prevented from entering State waters:

- Wash water from DOT-A baseyard remains on an asphalt driveway within the baseyard where it evaporates. The area is cleaned daily for traces of silt and/or oil – only biodegradable detergent is used in the washing. During a significant rainfall the runoff from this wash area flows into a grassed area to the south of the baseyard and infiltrates into the ground. In the event of flooding in the vehicle wash area, the mixture of wash water and storm runoff would discharge to both the ARFF drywell and the drywell to the west of the terminal. No vehicle washing is done while it is raining.
- The ARFF vehicle wash water infiltrates into the grassy area adjacent to the station. During significant rainfall the runoff from this area flows into the nearby drywell.
- Vehicles at Alamo Car Rental are washed in a covered wash area. The wash water is collected in slotted drains. The wash water is treated with an OWS before it is discharged into a leach field.

## **5.0 BEST MANAGEMENT PRACTICES**

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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. Best management practices (BMPs) and evaluation checklists applicable to the Molokai Airport have been attached as Appendix E. The BMPs have been adapted from the City & County of Honolulu, Department of Environmental Services, “*Best Management Practices Manual for Construction Sites in Honolulu*,” May 1999 and the Honolulu International Airport, “*Storm Water Management Program Plan*,” May 2007.

### **5.1 Good Housekeeping**

Good housekeeping practices are developed 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. The DOT-A and tenants at MKK store and use various maintenance materials such as petroleum products and solvent in the Hangar. The implemented BMPs will reduce the potential for the contamination from those products to storm water by minimizing exposure of such materials to storm events.

### **5.2 Preventative Practices**

Preventive practices are developed to reduce the occurrence of spillage and/or leakage from aircraft and equipment. Preventive maintenance involves examination of mechanical equipment and systems to uncover conditions that could cause equipment breakdowns, and correction of those conditions by adjustment, repair, or replacement of worn parts before the equipment or systems fail. The aircraft are inspected prior to every flight to ensure that they are in proper working condition. Additionally, the ASTs are routinely inspected to ensure that they will operate properly and also to prevent any releases from occurring. BMPs concerning fueling and maintenance of the equipment and aircraft are designed to prevent or reduce the impact of contaminates on the storm water system.

### **5.3 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 using absorbent materials or other acceptable practices, without disrupting facility operations. Daily inspections of the facility will identify any small spills, and 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, any spill, leak or release of petroleum products greater than 25 gallons (for petroleum products), 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 Department of Health Hazard Evaluation and Emergency Response (HEER office) and the ARFF Unit. Spill containment and cleanup kits are placed throughout the facility where airplanes or other vehicles are present. Spill cleanup is not the primary responsibility of the ARFF personnel, but they will provide the tenants and DOT-A personnel with their expertise and/or provide materials and equipment needed to remove spills. In the event of a large or uncontrolled release, the shift supervisor shall act as the Emergency Coordinator (EC) until relieved by the appropriate facility manager.

**TABLE 2: EMERGENCY CONTACT INFORMATION**

<b>CONTACT</b>	<b>TELEPHONE NUMBER</b>
Emergency (Medical Assistance, Fire Department, Police Department)	911
Aircraft Rescue Fire Fighting	(808) 567-9663
DOTA Baseyard Supervisor	(808) 567-9660 (office)
State of Hawaii Department of Health, Hazard Evaluation and Emergency Response (HEER) Office (Oahu)	(808) 586-4249
U.S. Coast Guard Marine Safety Office (Oahu)	(808) 541-2407
National Response Center	(800) 424-8802 or (202) 267-2675
Clean Islands Council	(808) 536-5814

## 6.0 STORM WATER MONITORING PLAN

In Accordance with the provisions of HAR 11-55 Appendix B, samples of storm water runoff shall be monitored at least annually. Storm water runoff will be sampled from monitoring site MKK 003 (Figure 2). MKK 003 is the discharge point for Drainage Basin C where the majority of the industrial activity takes place including the carrier airplane apron and the ground maintenance vehicles servicing the carriers. There are discharge outlets in two other areas, MKK 001 and MKK 002, but no industrial activity is performed in their respective drainage areas. Therefore, storm water in the areas of runoff basins A and B will not be included in the monitoring plan. Table 3 presents the parameters for sample analysis.

**TABLE 3: MOLOKAI AIRPORT MONITORING PARAMETERS**

EFFLUENT PARAMETER (MIN. REPORTING)	LIMIT	FREQUENCY	SAMPLE TYPE	TEST METHOD
Flow (gal)	R	Annually	Calculate/Estimate	---
BOD <sub>5</sub> (2 mg/L)	R	Annually	Grab/Composite	E405.1
COD (20 mg/L)	R	Annually	Grab/Composite	E410.4
TSS (1 mg/L)	R	Annually	Grab/Composite	E160.2
Total Phosphorous (0.1 mg/L)	R	Annually	Grab/Composite	E365.4
Total Nitrogen (0.75 mg/L)	R	Annually	Grab/Composite	SM4500-N
Nitrate+Nitrite-Nitrogen (0.5 mg/L)	R	Annually	Grab/Composite	E353.2
pH (0.1 standard units)	5.5-8.0	Annually	Grab	150.1
Oil and Grease (1 mg/L)	15	Annually	Grab	1664A

R = report only, no limitation at this time

Notes:

- (1) Pollutant concentration levels shall not exceed the effluent limits nor be outside the ranges indicated in the table. Actual or measured levels which exceed those effluent limits or are outside those ranges shall be reported to the director as required in section 10(c) of HAR 11-55 Appendix B.
- (2) The pH value shall not be outside the range as specified in HAR Chapter 11-54 for the applicable classification of the receiving state waters.
- (3) Total Nitrogen or SM 4500-N is the sum of TKN-N (E351.2) and Nitrate+Nitrite-N (E353.2).

### 6.1 Representative Storm Event

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

inches). National Weather Service forecasts can be used as a planning tool for gauging storm events.

## 6.2 Sampling Equipment

- Sample bottles, sample cooler with ice or Blue Ice<sup>®</sup> (contract laboratory will supply)
- Scoop and composite sample containers
- Rain gauge
- pH meter
- Disposable gloves, marking pen

## 6.3 Storm Runoff Sample Collection

Grab samples for Oil and Grease (with designated glass sample bottle only) and pH are to be taken during the first 15 minutes of discharge. pH is to be analyzed within 15 minutes of sampling. The DOT-A personnel shall collect the remaining samples for analysis during the first 15 minutes of the discharge and at 15 minute intervals thereafter for the duration of the discharge. If the discharge lasts over one hour, the sample collection will stop. If the rainfall stops after only one sample has been collected 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 Quantity of Discharge calculation or estimate will be based on the collected rain gauge data.

## 6.4 Sample Labeling

Do not label caps. An example of a sample label to be placed on the side of the sample containers is presented below:

### Sample Label

Date:	Time:	Collected By:
Sampling Site:		
Sample Type: <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Other _____		
Tests Required:		

## **6.5 Chain of Custody**

A chain of custody form shall be properly filled out and signed by each individual handling the samples to ensure sample integrity.

## **6.6 Storage and Shipping of Samples**

Each sample collected must be iced in the cooler provided immediately and until received by the laboratory. Ice or ice substitute (Blue Ice) may be used. Samples will only be collected Monday through Thursday (not days before holidays) because the contract laboratory is closed on weekends and holidays. The shipping is prepaid and will be delivered to Federal Express as soon as possible for shipping to the analytical lab.

## **6.7 Sample Analysis**

The testing laboratory shall be qualified to perform the EPA approved methods listed in Table 3 and provide appropriate Quality Assurance/Quality Control (QA/QC) documentation with the analytical results. (See Appendix F for laboratory quotation)

## **6.8 Reporting Requirements**

Storm water monitoring results shall be reported on a National Pollutant Discharge Elimination System Discharge Monitoring Report (DMR). Appendix F includes a copy of a blank DMR. Results shall be reported at least annually and no later than 60 days after the end of the calendar year (March 1<sup>st</sup>). The NGPC file number and discharge identification shall be included on the DMR. In addition to the DMR, the laboratory reporting sheets for both the samples and QA/QC, the start and end time of the monitored storm event, and the duration between the last storm event of 0.1 inch or more shall be included in the submittal. If there was no discharge for that monitoring year, the DMR shall be completed indicating such. Completed DMRs shall be submitted 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 3, a DMR shall be submitted to the Department of Health, Clean Water Branch indicating there was no discharge or the appropriate cause for lack of sampling and plan for correction.

## 7.0 PROCEDURES FOR IMPLEMENTATION

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Procedures include the training of employees, protocol for semiannual inspections, and completion of documentation.

### 7.1 Employee and Tenant Training

Employee and tenant 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 practices for preventing spills, and the procedures for responding properly and rapidly to spills of toxic and hazardous materials. DOT-A has developed and implemented an annual mandatory environmental training class. This employee training program is designed to ensure that the DOT-A employees and airport tenants understand pollution laws, regulation, and methods of compliance. The program focuses on permit conditions and the responsibilities of DOT-A personnel and tenants. Included in the topics to be covered:

**TABLE 4: SUMMARY OF EMPLOYEE TRAINING PROGRAM**

TRAINING TOPIC	TRAINEE	RESPONSIBILITY	FREQUENCY
Potential Pollutants	DOT-A Personnel and Tenants	Facility Manager	Annual
Best Management Practices	DOT-A Personnel and Tenants	Facility Manager	Annual
Past Releases and Causes	DOT-A Personnel and Tenants	Facility Manager	Annual
Spill Prevention and Response Plan	DOT-A Personnel and Tenants	Facility Manager	Annual
Site Inspections	DOT-A Personnel and Tenants	Facility Manager	Annual

### 7.2 Protocol for Site Inspections

The appropriate DOT-A personnel will conduct inspections at MKK in accordance with the Inspection and Enforcement Manual dated August 2009. This manual indicates that inspections at MKK will be performed at least semi-annually using the inspection form indicated in that document.

### 7.3 Revisions to SWPCP

Plan reviews shall be performed at least annually to assess the effectiveness of the BMPs and to implement appropriate revisions due to:

- Changes in materials used on-site;
- Changes in tenants or activities;
- Changes in the materials handling procedures; and/or
- Changes in management practices.

Revisions may also be made if BMPs in the SWPCP are not effective in reducing pollutants in storm water discharges and/or the facility is found to be in violation of the NPDES permit conditions. Plan review and revisions shall be completed within 30 days. All DOT-A personnel and tenants at MKK will be informed of any changes made to the SWPCP, and will be trained on new or modified procedures, if necessary.

#### **7.4 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.

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. Inspection records shall be analyzed semi-annually (to correspond with semi-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 required by the NGPC shall be kept on-site for a minimum of five years and be made available to the DOH upon request. A copy of the SWPCP shall also be made available to personnel as a reference in the same location that MSDS and other safety information are maintained.

## 8.0 CERTIFICATION AND SIGNATURE

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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 submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for false information, including the possibility of fine or imprisonment for knowing violations.

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Brennon Morioka  
Director of Transportation

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Date

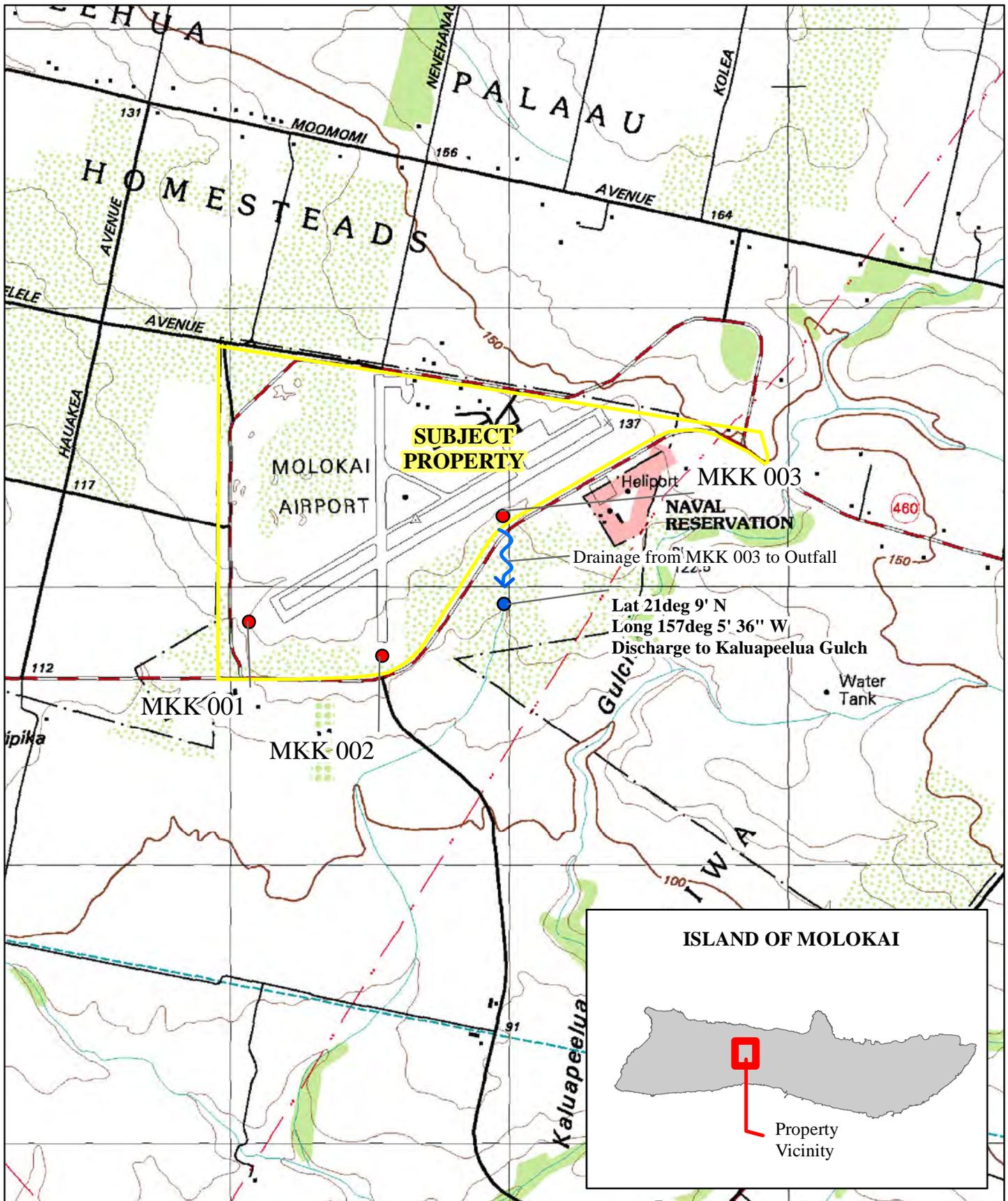
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# *Appendix A*

## *Figures*



**EnviroServices &  
Training  
Center, LLC**

Project No.  
10-6001

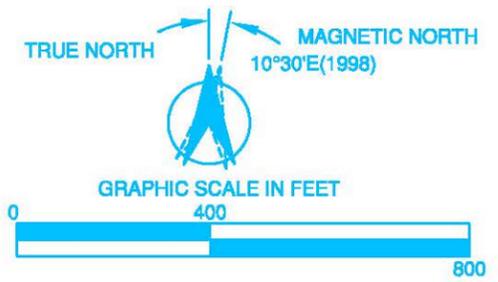
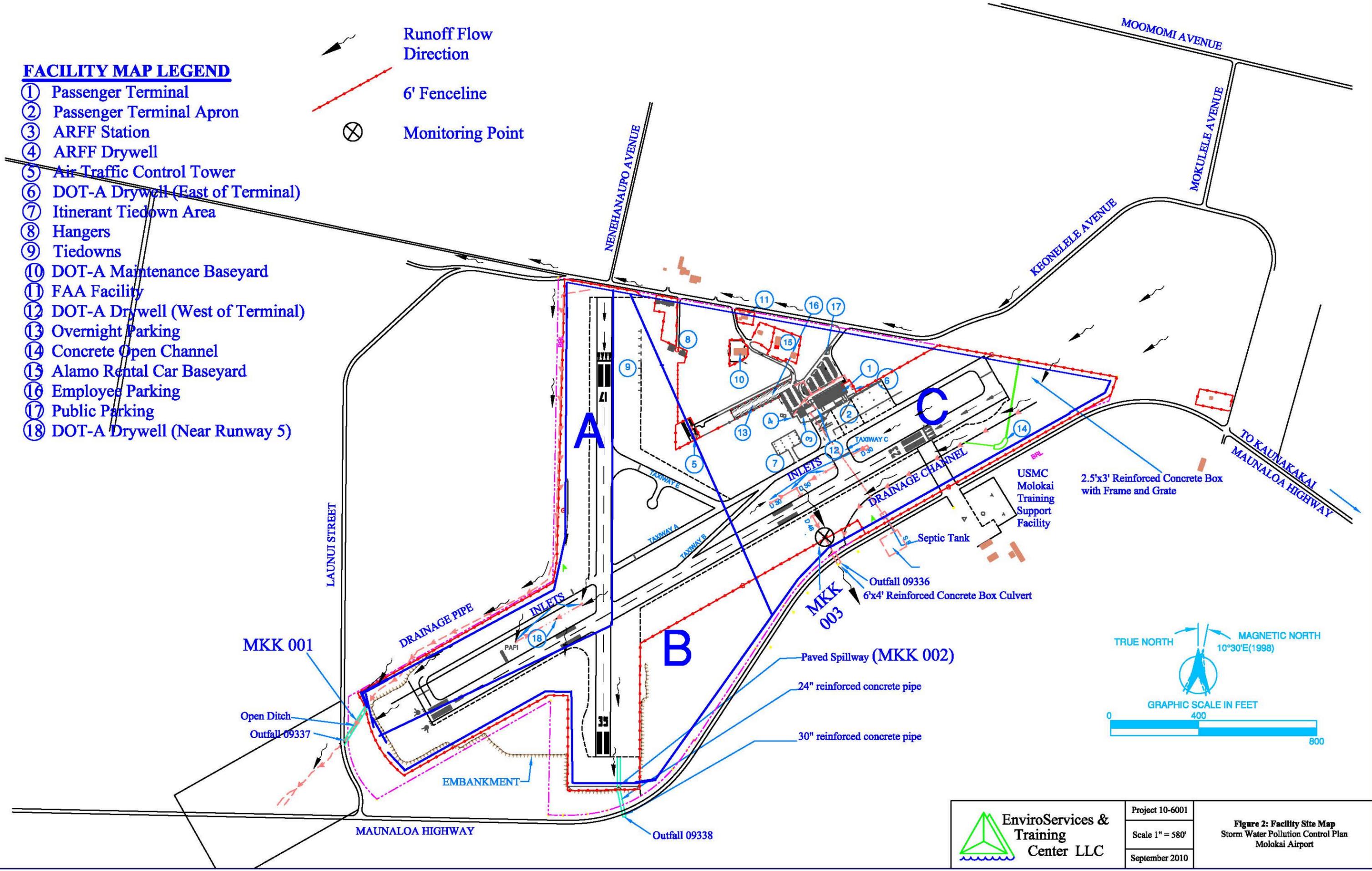
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2010

**Figure 1 - Site Location Map**  
Storm Water Pollution Control Plan  
Molokai Airport

**FACILITY MAP LEGEND**

- ① Passenger Terminal
- ② Passenger Terminal Apron
- ③ ARFF Station
- ④ ARFF Drywell
- ⑤ Air Traffic Control Tower
- ⑥ DOT-A Drywell (East of Terminal)
- ⑦ Itinerant Tiedown Area
- ⑧ Hangars
- ⑨ Tiedowns
- ⑩ DOT-A Maintenance Baseyard
- ⑪ FAA Facility
- ⑫ DOT-A Drywell (West of Terminal)
- ⑬ Overnight Parking
- ⑭ Concrete Open Channel
- ⑮ Alamo Rental Car Baseyard
- ⑯ Employee Parking
- ⑰ Public Parking
- ⑱ DOT-A Drywell (Near Runway 5)

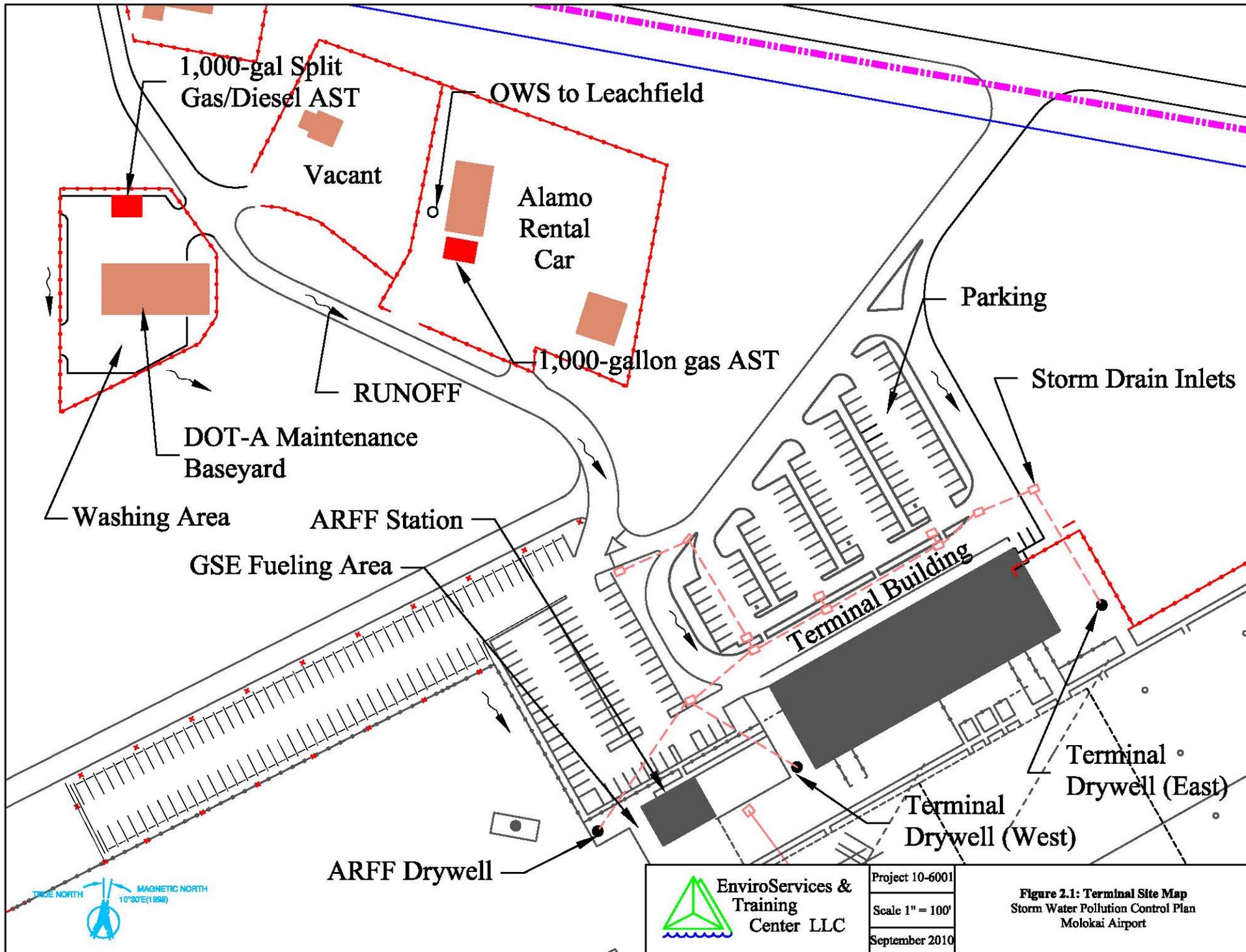
-  Runoff Flow Direction
-  6' Fenceline
-  Monitoring Point



**EnviroServices & Training Center LLC**

Project 10-6001
Scale 1" = 580'
September 2010

**Figure 2: Facility Site Map**  
Storm Water Pollution Control Plan  
Molokai Airport



**Figure 2.1: Terminal Site Map**  
 Storm Water Pollution Control Plan  
 Molokai Airport

# *Appendix B*

## *Photographs*



Photograph 1: Basin A looking toward the MKK Terminal Building with drain inlet to the airfield drywell in the foreground.



Photograph 2: Basin B looking toward DOT-A Baseyard and Terminal Building.



Photograph 3: Basin C looking over Runway 23 toward the MKK 003 monitoring site.



Photograph 4: Altered, covered drainage canal in Basin C.



Photograph 5: Drywell west of the Passenger Terminal.



Photograph 6: ARFF Drywell with the parking lot in the background.



Photograph 7: MKK 003 Sampling Point.



Photograph 8: Alamo 1,000-gallon gasoline AST and covered vehicle washing area.



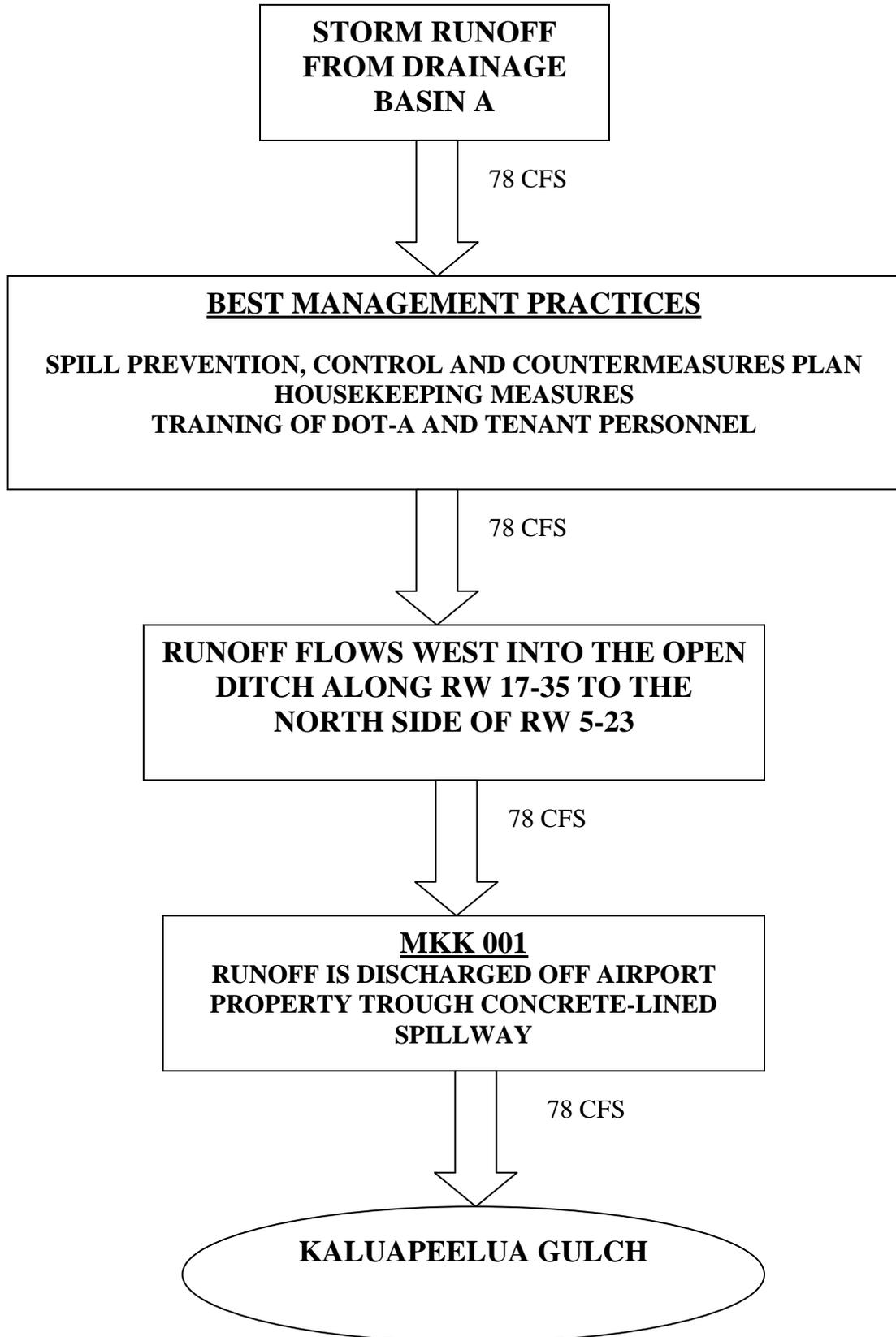
Photograph 9: DOT-A Baseyard split 500-gallon gasoline and 500-gallon diesel AST.

# *Appendix C*

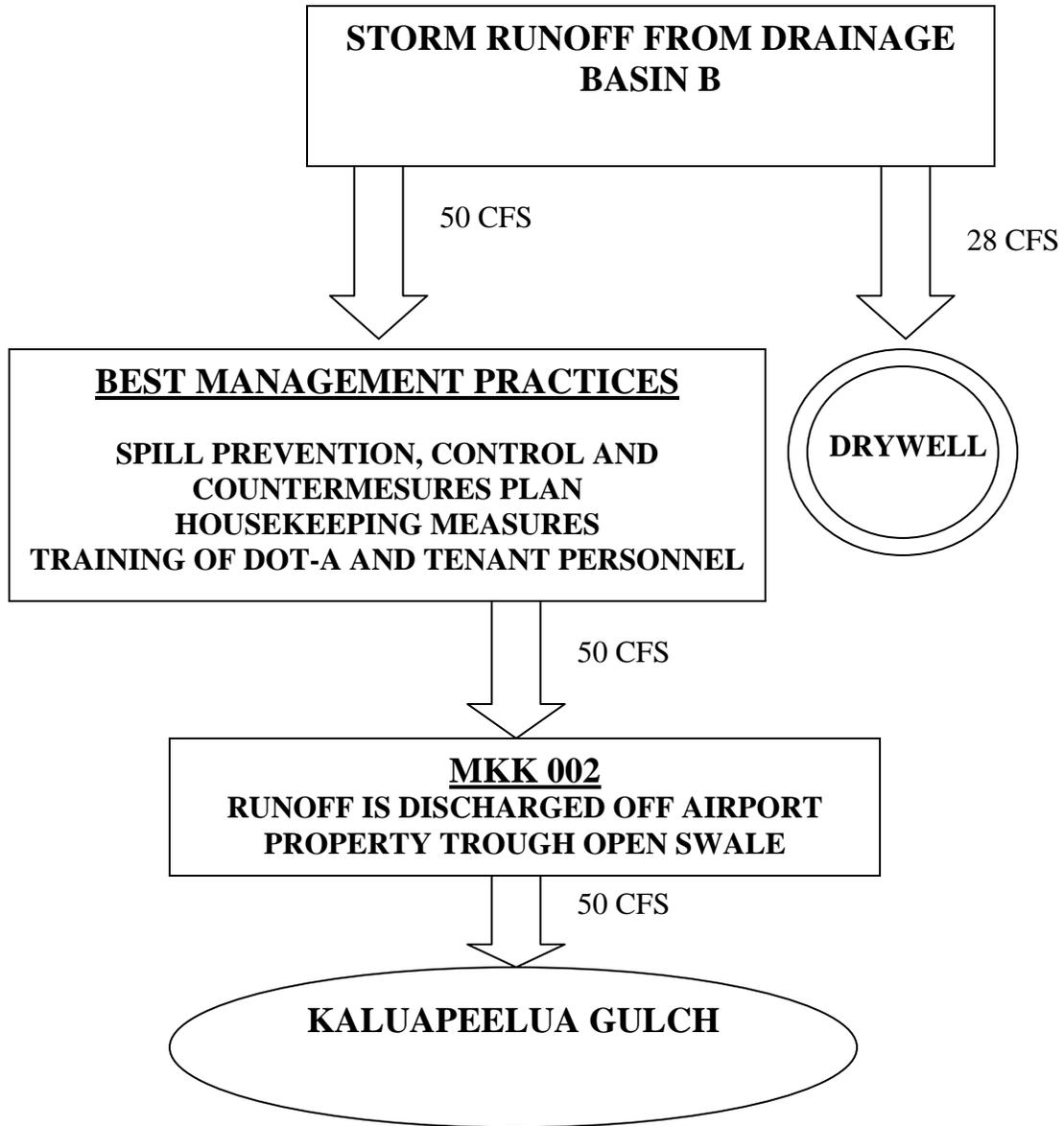
## *Runoff Flow Chart*

# RUNOFF FOR BASIN A

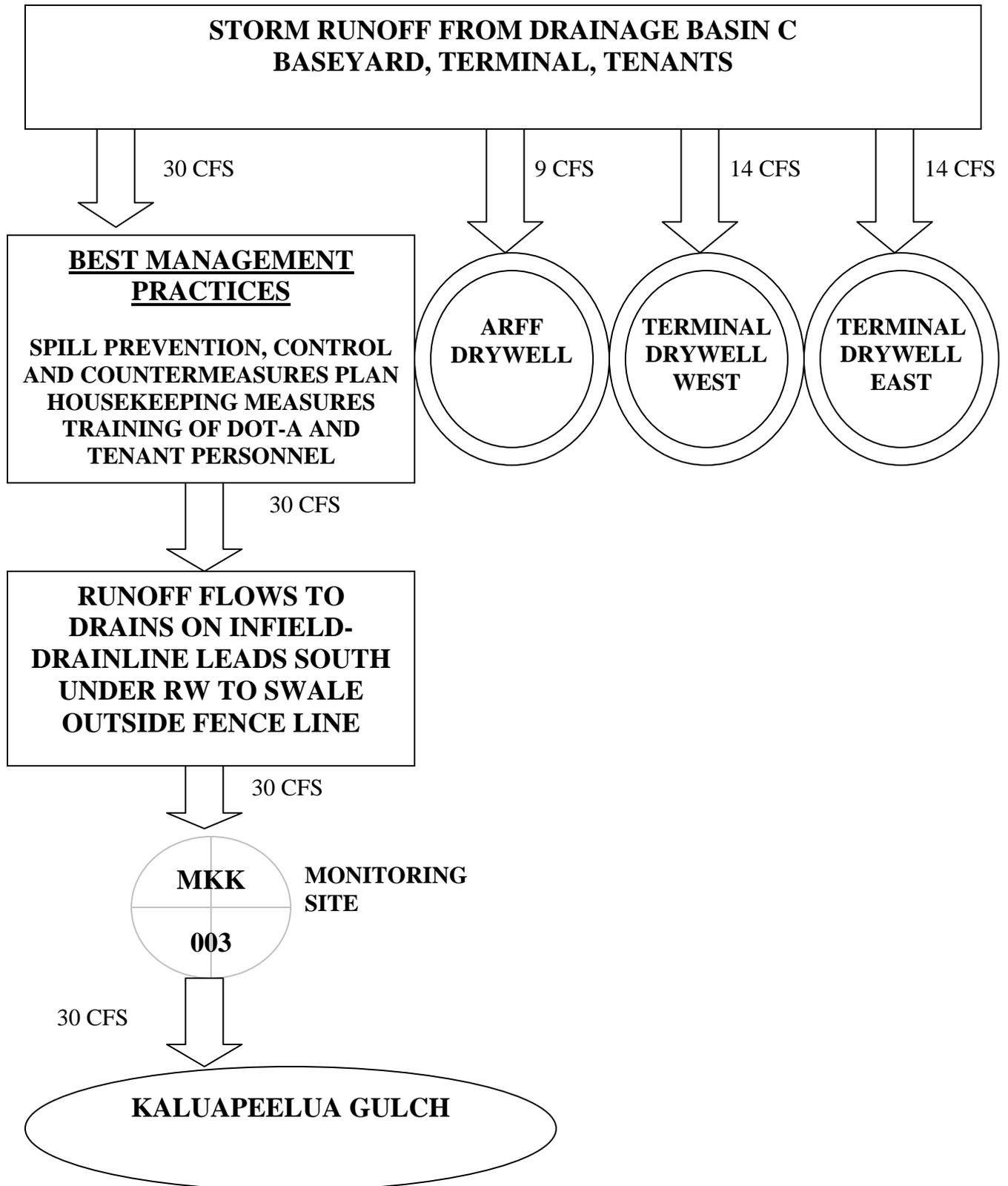
## RUNOFF FOR BASIN A



# RUNOFF FOR BASIN B



# RUNOFF FROM BASIN C



# *Appendix D*

## *Airport Tenants*

**Molokai Airport**  
**Industrial Tenant List**

<b>Company Name</b>	<b>PMID</b>	<b>Space Sq Ft</b>	<b>Contract Number</b>	<b>Space Type</b>	<b>Description</b>
ABOVE IT ALL, INC	MKK402105	990	PP-98-M009	TIEDOWN	Aircraft Tiedown
SCHWIND, BERNARD / IZAWA, GLENN	MKK402108	990	PP-09-M002	TIEDOWN	Aircraft Tiedown
VANGUARD CAR RENTAL USA, LLC DBA ALAMO	MKK002103	9767	DOTA-09-0053	BASEYARD	Baseyard and Parking Space
VANGUARD CAR RENTAL USA, LLC DBA ALAMO	MKK002104A	20675	DOTA-09-0053	BASEYARD	Baseyard and Parking Space

**Molokai Airport**  
**Commercial / Office Tenant List**

<b>Company Name</b>	<b>PMID</b>	<b>Space Sq Ft</b>	<b>Contract Number</b>	<b>Space Type</b>	<b>Description</b>
ABOVE IT ALL, INC	MKK301110A	148	RP-6888	TICKTCNT	Airline Ticket Counter
ABOVE IT ALL, INC	MKK301110B	70	RP-6888	TICKTCNT	Airline Ticket Counter
ABOVE IT ALL, INC	MKK611102	404	RP-6888	BAG-MKUP	Aircraft Bag Handling Area
EVERGREEN AV GRD LOG ENT INC	MKK301142	259	RP-6916	STORE	Store
GUTIERRES, CYNTHIA K.	MKK301127	79	RP-4789	CONC-LEI-F	Greeter
HAWAII ISLAND AIR	MKK301116	142	RP-6443	OFC-1L-F	Office
HAWAII ISLAND AIR	MKK301141	128	RP-5251	CARGO	Aircraft Loading
HAWAII ISLAND AIR	MKK611103	931	RP-6443	BAG-MKUP	Aircraft Bag Handling Area
INTER-ISLAND COFFEES INC	MKK301119	299	RP-6125	CONC-RS-F	Coffee Shop in Terminal
MOKULELE FLIGHT SERVICE INC	MKK301111A	161	RP-6596	TICKTCNT	Airline Ticket Counter
MOKULELE FLIGHT SERVICE INC	MKK301111B	148	RP-6596	BAG-MKUP	Aircraft Bag Handling Area
MOKULELE FLIGHT SERVICE INC	MKK611101B	181	RP-6596	BAG-MKUP	Aircraft Bag Handling Area
UNITED PARCEL SERVICE CO-SWFC	MKK610121Q	171	PP-95-M014		Parking space
UNITED PARCEL SERVICE CO-SWFC	MKK610121R	171	PP-95-M014		Parking space
US DEPARTMENT OF COMMERCE (NATL WEATHER SVC)	MKK004111	49	DOTA-79-0034	LAND-IU	Weather Equipment
US FEDERAL AVIATION ADM-FC	MKK002101	9768	DOTA-03-0009	LAND-IU	FAA Airfield Equipment
US FEDERAL AVIATION ADM-FC	MKK004107	100	DOTA-78-0020	LAND-IU	Office

**Molokai Airport**  
**Commercial / Office Tenant List**

US FEDERAL AVIATION ADM-FC	MKK004108	100	DOTA-78-0020	LAND-IU	Office
US FEDERAL AVIATION ADM-FC	MKK004112	100	DOTA-81-0027	LAND-IU	Office
US FEDERAL AVIATION ADM-FC	MKK005101	40000	DOTA-05-0024	FEDERAL	FAA Airfield Equipment
US GENERAL SERVICES ADMIN / TSA	MKK301143	273	RP-6799	OFC-1L-F	Office
US GENERAL SERVICES ADMIN / TSA	MKK301149	99	RP-6569	FEDERAL	Security Checkpoint
USDA PPQ APHIS-MAUI	MKK802105	250	PP-10-M001	FEDERAL	Office
VANGUARD CAR RENTAL USA, LLC DBA ALAMO	MKK301131	194	DOTA-09-0053	CONC-SVC-F	Service Counter

# *Appendix E*

## *Best Management Practices*

**BEST MANAGEMENT PRACTICES  
FOR CONDUCTING OPERATIONS AT  
MOLOKAI AIRPORT**

**Disclaimer**

The list of federal, state, and local regulations applying to environmental compliance at the airports provided herein shall serve as a guidance document for general activities conducted by any and all tenants at State of Hawaii, DOT Airports. It is every tenant's responsibility to ensure that their activities are in compliance with all current and applicable environmental laws and regulations.

# Best Management Practices

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## Best Management Practices Good Housekeeping Practices

### Description

Daily activities performed at Molokai Airport require the use of materials and products that may be potential contaminants in storm water. Good housekeeping practices are intended to maintain a clean, safe, and orderly working environment at the facility where these materials are used or stored. Implementing the good housekeeping BMPs will reduce the amount of pollutants entering the storm water system.

### Limitations

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

Practice		
<input type="checkbox"/>	1	Do not overfill trash dumpsters or leave trash outside of containers. Ensure that materials put into dumpsters will not leak out of dumpsters and commingle with storm water runoff. Use leak-proof dumpsters and keep covered when not in use.
<input type="checkbox"/>	2	Remove and properly dispose of debris from all areas daily.
<input type="checkbox"/>	3	Use appropriate clean up tools in the facility such as a broom for dry sweeping. Do not hose down facility floors with water or use a blower to remove clean up materials. Dry sweep or vacuum all areas to prevent tracking of materials.
<input type="checkbox"/>	4	Maintain ample spill clean-up supplies and keep them in proper physical condition.
<input type="checkbox"/>	5	Use absorbent materials to contain any non-hazardous spills. Promptly clean spills with rags or absorbent material, and properly dispose of cleaning materials. Put spent rags or absorbent material in durable plastic bags, double wrap if necessary, seal with tape and place in trash dumpsters. Disposal of hazardous spilled material should be in accordance with the Solid Waste Storage and Disposal BMP.
<input type="checkbox"/>	6	Inspect storm drain inlets regularly for illicit discharge such as sediment runoff or debris accumulation. Clean and remove debris as necessary.
<input type="checkbox"/>	7	Identify storm drains and waterways in each work area and prevent non-storm water discharges into the storm drainage system.
<input type="checkbox"/>	8	Perform daily facility inspections to ensure good housekeeping practices are being followed by facility personnel.
<input type="checkbox"/>	9	Conduct employee training on all best management practices annually and as required.

## Best Management Practices Aircraft, Vehicle, and Equipment Maintenance and Repair

### Description

Routine maintenance vehicles and equipment must be done to maintain their proper operation. Additionally, emergency maintenance of aircraft at Molokai Airport may be required. The maintenance and repair activities conducted may include fluids removal, engine and parts cleaning, or tire repair and replacement. These activities represent a potentially significant source of contaminants due to the harmful materials and waste generated. This BMP is designed to prevent or reduce the impact of contaminants from maintenance and repair on the storm water system.

### Limitations

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

Practice		
<input type="checkbox"/>	1	Maintain aircraft, vehicles, and equipment used at the facility in good operating condition.
<input type="checkbox"/>	2	Perform aircraft, vehicles, and equipment maintenance and repair activities in designated indoor or covered areas away from storm water runoff.
<input type="checkbox"/>	3	Inspect damaged aircraft, vehicles, and equipment for fluid leaks and repair as soon as possible. Do not leave leaking aircraft, vehicles, and equipment parked overnight on airport common use areas without appropriate drainage controls and prior approval from Airports District Manager.
<input type="checkbox"/>	4	Remove fluids and batteries from damaged equipment and equipment no longer in use before storage. Store under cover, if possible, until repair or disposal.
<input type="checkbox"/>	5	Transfer removed vehicle fluids to designated storage container as soon as possible.
<input type="checkbox"/>	6	Use drip pans, tarps, or any other drainage control whenever removing fluids to capture any releases of oil, fluids, and solvent.
<input type="checkbox"/>	7	When not in use, store drums/containers of liquid material or waste indoors or under cover and within secondary containment pallets.
<input type="checkbox"/>	8	Designate areas in service bays for parts cleaning. Allow parts to drain over solvent tank or drip pan. Do not wash or rinse parts outdoors and do not allow solvent to drip or spill onto the floor.
<input type="checkbox"/>	9	Use appropriate clean up materials in the facility. Do not hose down with water or use a blower to remove clean up materials. Dry sweep or vacuum all areas.
<input type="checkbox"/>	10	Maintain well stocked spill kits throughout the facility, especially in maintenance areas to protect discharge to receiving waters and storm drain inlets in the event of spill.
<input type="checkbox"/>	11	Conduct employee training annually and as required.

## Best Management Practice Vehicle and Equipment Washing

### Description

Routine washing of vehicles and equipment is conducted in designated areas at Molokai Airport. This resulting wash water may contain oils, greases, heavy metals, sediments, and other pollutants that can pose a threat to storm drain system and receiving water bodies. This BMP is intended to reduce the impact of these activities on storm water runoff.

### Limitations

None.

Practice		
<input type="checkbox"/>	1	Wash vehicles and equipment in designated areas using minimal water. Use DOTA approved biodegradable detergents. If washing must occur at the tenant facility, do so at designated wash racks or wash areas of the facility.
<input type="checkbox"/>	2	Ensure the designated wash racks or wash areas of the facility are inside a building or on an impervious area where wash water can be contained and directed to an OWS that drains to the C&C Sewer System, wells or retention pond. Obtain all applicable permits.
<input type="checkbox"/>	3	Follow posted directions for wash rack or wash area use. At the tenant facility, post directions for use near the wash racks or wash areas.
<input type="checkbox"/>	4	See Solid Waste Storage and Disposal BMP for OWS maintenance.
<input type="checkbox"/>	5	Where applicable, sponge wash vehicles, or equipment with a bucket of water to eliminate excess wash water. Clean up any water that lands on the ground or the floor using absorbent materials or a wet/dry vacuum immediately after washing.
<input type="checkbox"/>	6	Washing of personal vehicles are prohibited.
<input type="checkbox"/>	7	Conduct employee training annually and as required.

## Best Management Practice Aircraft, Vehicle, and Equipment Fueling

### Description

During fueling of aircraft, 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.

Practice		
<input type="checkbox"/>	1	Perform fueling of aircraft, vehicles, and equipment in designated areas, away from storm drain inlets, drainage channels, or receiving waters.
<input type="checkbox"/>	2	Maintain an ample supply of spill cleanup materials and spill control equipment near fueling areas to protect discharge to storm drain inlets and receiving waters, in the event of a spill. Equip fuel trucks and mobile tanks with spill cleanup materials.
<input type="checkbox"/>	3	No topping off or no unattended fueling.
<input type="checkbox"/>	4	Post proper fueling and cleanup instructions in fueling areas.
<input type="checkbox"/>	5	Do not hose off fueling area. Use absorbents.
<input type="checkbox"/>	6	Inspect storage tanks, hoses and dispensing nozzles daily for cracks and leaks. If any defects are noticed, replace defective parts immediately or remove from service until repaired.
<input type="checkbox"/>	7	Check for proper operation of automatic shut off controls on fuel dispensing nozzles. Repair as needed.
<input type="checkbox"/>	8	Test, monitor, and maintain fuel storage tanks as required by all applicable federal, state and local laws.
<input type="checkbox"/>	9	Use absorbents materials to contain any spills. Promptly clean spills with rags or absorbent material, and properly dispose of cleaning materials. Put rags or absorbent material in durable plastic bags, double wrap if necessary, seal with tape, and dump them in trash dumpsters. For larger spills, contact spill response personnel immediately. See Spill Prevention and Response BMP.
<input type="checkbox"/>	10	Train oil and hazardous material handling personnel annually and as required.

## Best Management Practices Material Storage

### Description

A variety of products and materials that may adversely affect water quality are stored at the tenant facility. 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.

Practice		
<input type="checkbox"/>	1	Store materials in their original or appropriate containers as recommended by the manufacturer. Store small containers of flammable materials within flammable storage lockers.
<input type="checkbox"/>	2	Ensure that all containers are closed, secured to prevent movement, fastened, stored neatly, and properly labeled.
<input type="checkbox"/>	3	Maintain accurate inventory of stored supplies. Periodically review inventory and properly dispose of materials that are expired or no longer used. Only purchase and store required quantities of hazardous materials.
<input type="checkbox"/>	4	Store materials and containers indoors or in covered areas. Containers holding liquid materials should also be within secondary containment.
<input type="checkbox"/>	5	Identify, list and inventory all chemical substances present in the facility. Compile Material Safety Data Sheets (MSDS) for all chemical substances. Have MSDS data readily accessible for facility employees.
<input type="checkbox"/>	6	Cover containers and materials with a plastic wrap or tarp when storing them outdoors temporarily (24 hours or less). Do not store materials outdoors that may leach pollutants into the storm water or come in contact with storm water runoff.
<input type="checkbox"/>	7	Maintain an ample supply of spill clean-up materials near storage areas.
<input type="checkbox"/>	8	Use absorbent materials to contain any spills. Promptly clean spills with rags or absorbent material, and properly dispose of cleaning materials. Put spent rags or absorbent material in durable plastic bags, double wrap if necessary, seal with tape, and dump in trash dumpsters. For larger spills, contact spill response personnel immediately. See Spill Response BMP.
<input type="checkbox"/>	9	Sweep or vacuum up spilled materials immediately.
<input type="checkbox"/>	10	Inspect material storage and equipment parking areas daily. 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.
<input type="checkbox"/>	11	Conduct employee training annually and as required.

## **Best Management Practices Material Handling**

### **Description**

Prevent or reduce the discharge of pollutants to storm water from material handling by minimizing hazardous material use on site and training employees in the proper handling and use of materials. The loading and unloading of materials usually takes place outside; therefore, materials spilled, leaked, or lost during the process may collect in the soil or on other surfaces and have the potential to be carried away by storm water runoff.

### **Limitations**

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

<b>Practice</b>		
<input type="checkbox"/>	1	Use materials only where and when needed to complete the work.
<input type="checkbox"/>	2	Minimize use of hazardous materials on-site. Use less hazardous, alternative materials where possible.
<input type="checkbox"/>	3	Follow manufacturer's instructions regarding uses, protective equipment, ventilation, flammability, and mixing of chemicals.
<input type="checkbox"/>	4	Limit exposure of material to rainfall whenever possible, such as only loading or unloading during dry weather or conducting the loading or unloading indoors or under cover. Avoid placing the loading area near storm drains or cover storm drains during loading or unloading operations.
<input type="checkbox"/>	5	Conduct regular dry sweeping of the loading or unloading areas.
<input type="checkbox"/>	6	Conduct employee training annually and as required.

## Best Management Practices Solid Waste Storage and Disposal

### Description

The chemicals used at the tenant facility ultimately require waste management. The improper handling of solid wastes can allow contaminants to enter the storm water runoff. The discharge of these pollutants can be prevented and reduced by tracking solid waste storage, handling, and disposal as well as reducing the waste generation through reuse and recycling.

The solid waste generated from the tenant facility may include, but not be limited to, oil based paints, solvents, thinners, petroleum products, acid from batteries, anti-freeze, and other compounds. Some of these wastes should be managed as hazardous waste, universal waste, and/or used oil as required by state and federal regulations (Refer to Appendix II). Hazardous waste generators are responsible for making a hazardous waste determination and to dispose of the waste properly. Universal waste includes batteries, some pesticides, mercury containing equipment (mercury thermostats), and bulbs (lamps).

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

### Limitations

All hazardous waste that can or cannot be reused or recycled must be disposed of by a certified hazardous waste hauler.

Practice		
<input type="checkbox"/>	1	Use the entire product before disposing of the container. Minimize use of hazardous materials on-site. Use less hazardous, alternative materials where possible.
<input type="checkbox"/>	2	Do not remove the original product label; it contains important safety and disposal information.
<input type="checkbox"/>	3	Inspect containers regularly and transfer waste from damaged containers into containers that are intact.
<input type="checkbox"/>	4	Identify, list and inventory all chemical substances present in the facility. Compile Material Safety Data Sheets (MSDS) for all chemical substances. Have MSDS data readily accessible for facility employees
<input type="checkbox"/>	5	Only purchase and store required quantities of hazardous materials.
<input type="checkbox"/>	6	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. Water-based paints should be dried and disposed of in the landfill. Dispose of excess oil based paints and sludge as hazardous waste.
<input type="checkbox"/>	7	Ensure that hazardous waste or chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for dry construction debris.

**Best Management Practices  
Solid Waste Storage and Disposal  
(Continued)**

<input type="checkbox"/>	8	Designate an indoor or covered hazardous waste collection area.
<input type="checkbox"/>	9	Hazardous wastes should be stored in secure, covered containers, and protected from damage. Place hazardous waste containers in secondary containment.
<input type="checkbox"/>	10	Label hazardous waste containers clearly with the words “Hazardous Waste” and the date when the hazardous waste accumulation began.
<input type="checkbox"/>	11	Do not mix waste, this can cause chemical reactions, make recycling impossible, and complicate disposal.
<input type="checkbox"/>	12	Arrange for regular hazardous waste collection before containers reach capacity.
<input type="checkbox"/>	13	Ensure that hazardous wastes are collected, removed, and disposed of only at authorized disposal sites by an approved hazardous waste hauler. Maintain disposal manifests for a minimum on three years.
<input type="checkbox"/>	14	Recycle any useful waste such as used oil, spent solvents, spent lead acid batteries, scrap metal, and used oil filters, etc. Filter and re-use thinners and solvents.
<input type="checkbox"/>	15	If the facility generates used oil, at a minimum, the facility shall store used oil in appropriate containers, label containers clearly with the words “Used Oil”, and provide secondary containment.
<input type="checkbox"/>	16	If the facility generates Universal Waste, at a minimum, the facility shall store universal waste in appropriate containers, label containers clearly with the words “Universal Waste” followed by “lamps, batteries, etc.”, and mark with the accumulation start date. Dispose of the Universal Waste within a year of the accumulation start date.
<input type="checkbox"/>	17	Place spill cleanup materials where it will be readily accessible.
<input type="checkbox"/>	18	If containers do spill, clean up immediately – follow procedures in Spill Prevention and Response BMP.
<input type="checkbox"/>	19	At minimum, OWSs must be inspected annually and cleaned to remove accumulated oil, grease, floating debris, and sediment in order to maintain solids and petroleum removal efficiency. Maintain an inspection and maintenance log.
<input type="checkbox"/>	20	Conduct employee training annually and as required.

## Best Management Practices Spill Prevention and Response Practices

### Description

Spills of materials used and stored at the tenant facility can contaminate storm water runoff. The procedures 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 that do not threaten ground or surface waters will be cleaned up using absorbent materials or other acceptable practices and disposed properly, without disrupting airport operations. All the tenants and/or their contractors are requested to report any spills (irrespective of the size) to the DOTA Airport Duty Manager. 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 owner or manager of the tenant facility shall act as the Emergency Coordinator (EC) until relieved by the appropriate DOT-A personnel. Employees should follow the guidelines listed below where practicable.

### Limitations

The Airport Rescue and Fire Fighting Facility is the lead agency for emergency response to hazardous spills on the airport facility.

Practice		
<input type="checkbox"/>	1	Stop work.
<input type="checkbox"/>	2	Shut down equipment and secure work operations.
<input type="checkbox"/>	3	Determine the source of the release and any hazards present.
<input type="checkbox"/>	4	Notify the EC, Airport Duty Manager, and ARFF (567-9663). Notify and alert others of the incident via: (1) voice; (2) hand-held radios; and/or (3) other effective communication.
<input type="checkbox"/>	5	<p>The EC shall evaluate the situation and decide whether to implement a "fight or flight" response by gathering the following information, if it can be done safely:</p> <ol style="list-style-type: none"> <li>1. Your name, location, and how you may be reached.</li> <li>2. Location of the release.</li> <li>3. Type, quantity, and description of the release.</li> <li>4. Hazards of the release.</li> <li>5. Type of media affected (soil, asphalt, concrete, etc.).</li> <li>6. Rate of the release.</li> <li>7. Migratory direction of the release.</li> <li>8. Potential for fire or explosion.</li> <li>9. Potential for human exposure.</li> <li>10. Potential for migration to surface water (ocean, storm drains, etc.).</li> </ol>

**Best Management Practices**  
**Spill Prevention and Response Practices**  
(continued)

<input type="checkbox"/>	6	Keep non-essential employees and visitors away from the spill area.
<input type="checkbox"/>	7	Prevent vehicles and equipment from driving through the spill area.
<input type="checkbox"/>	8	Remove all injured persons from the area of danger and render first aid.
<input type="checkbox"/>	9	Never subject yourself or other personnel to unreasonable risk of illness or injury.
<input type="checkbox"/>	10	If the decision is to "fight," spill response personnel are to don the appropriate PPE.
<input type="checkbox"/>	11	Eliminate all possible sources of ignition/detonation such as vehicle engines, welding and grinding operations, and smoking.
<input type="checkbox"/>	12	Remove or isolate ignitable and incompatible materials from the area of the release if the spill is of a flammable substance.
<input type="checkbox"/>	13	Locate, stop, and contain the source of the release.
<input type="checkbox"/>	14	<p>Confine the release to prevent further migration using drainage controls, including but not limited to methods from the following list:</p> <ul style="list-style-type: none"> <li>▪ Diking and berming using sand, soil, or other inert material;</li> <li>▪ Sealing storm drains with plastic and sandbags;</li> <li>▪ Placing granular absorbent or absorbent pads and booms;</li> <li>▪ Diverting the chemicals from entering drains, manholes, streams, etc.; and</li> <li>▪ Implementing retention techniques.</li> </ul>
<input type="checkbox"/>	15	Call the facility spill response contractor for cleanup and removal of accumulated product resulting from the release. Ensure that the contractor collects and containerizes the spilled materials, affected media, used decontamination solutions, and disposable PPE in proper containers. The contractor will transport and properly dispose of the hazardous waste in accordance with applicable state and federal regulations.
<input type="checkbox"/>	16	Implement proper decontamination procedure on vehicles, pavement, PPE, equipment, and other affected media to prevent the spilled material from being tracked into a larger area.

**Best Management Practices**  
**Spill Prevention and Response Practices**  
(continued)

<input type="checkbox"/>	17	Clean any stained pavement by placing a berm for containment around the stained area, scrubbing the area using detergent or cleaning agent, and rinsing. The detergent and rinse water must be collected in the bermed area around the spill and removed.
<input type="checkbox"/>	18	If the release is not readily and easily controlled, evacuation may be necessary.
<input type="checkbox"/>	19	If the EC decides on the "flight" option, the EC is to immediately alert and evacuate all personnel to a safe distance upwind from the spill in a designated assembly area.
<input type="checkbox"/>	20	Call the facility spill response contractor to handle the clean-up of the spilled material.
<input type="checkbox"/>	21	<p>DOTA personnel will assist the EC in determining whether the spill is of a reportable quantity. If the spill is of a reportable quantity, the following agencies should be notified:</p> <ul style="list-style-type: none"> <li>▪ National Response Center - (800) 424-8802</li> <li>▪ U.S. Coast Guard - (808) 842-2606</li> <li>▪ DOH HEER office - (808) 586-4249 or after hours (808) 247-2191</li> <li>▪ DOH Clean Water Branch (CWB) – (808) 586-4309 (only if spill reaches state waters)</li> </ul> <p>The following information should be provided:</p> <ol style="list-style-type: none"> <li>1) Caller Name, location, organization, and telephone number</li> <li>2) Name, address, and telephone number of the facility owner</li> <li>3) Name, address, and telephone number of the facility contact person</li> <li>4) Date, time, and duration of the release</li> <li>5) Date and time the release was discovered</li> <li>6) Name of the chemical spilled and the approximate quantity released</li> <li>7) Location of the release</li> <li>8) Type of media affected (e.g. soil, asphalt, concrete, etc.)</li> <li>9) Measures taken in response to the release</li> <li>10) Danger or threat posed by the release or spill</li> <li>11) Number and type of injuries (if any)</li> <li>12) Weather conditions at the incident location</li> <li>13) Any other information that may help emergency personnel respond to the incident</li> </ol>
<input type="checkbox"/>	22	If the spilled material is of a reportable quantity, a written notification must also be submitted to the DOH HEER no later than thirty (30) days following the discovery of the release. A copy of this report must be provided to the DOH CWB if the spilled material reached the state waters.

**APPENDIX I**  
**LIST OF APPLICABLE FEDERAL, STATE, AND LOCAL**  
**REGULATIONS APPLYING TO**  
**ENVIRONMENTAL COMPLIANCE AT AIRPORTS**

## LIST OF REGULATIONS

### **Code of Federal Regulations**

- 29 CFR 1910 (Subparts G, H, I, J, and K,) Hazardous Materials, Environmental Controls, and Personnel Protection.
- 29 CFR 1910.1200 OSHA Hazard Communication Standard
- 40 CFR 110 Discharge of Oil
- 40 CFR 112 Oil Pollution Prevention (SPCC/OPA Plans)
- 40 CFR 117 Determination of Reportable Quantities for a Hazardous Substance
- 40 CFR 122-124, 401 NPDES Regulations for Stormwater Discharges
- 40 CFR 260-263 Hazardous Waste Management
- 40 CFR 273 Universal Waste Management
- 40 CFR 279 Used Oil Management
- 40 CFR 280 Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST)
- 40 CFR 355 Emergency Planning and Notification
- 40 CFR 370 Hazardous Chemical Reporting: Community Right-to-Know
- 40 CFR 372 Toxic Chemical Release Reporting: Community Right-to-Know
- 40 CFR 403 General Pre-Treatment Regulations For Existing And New Sources Of Pollution
- 40 CFR 761 Toxic Substances (PCBs)
- 49 CFR 110.3 Discharge of Oil
- 49 CFR 171-173, 175, and 177 Department of Transportation Regulations

### **Hawaii Administrative Rules**

- HAR Title 11 Chapter 54 Water Quality Standards
- HAR Title 11 Chapter 55 Water Pollution Controls
- HAR Title 11 Chapter 58.1 Solid Waste Management Control
- HAR Title 11 Chapter 62 Wastewater Systems
- HAR Title 11 Chapter 104.1 Management and Disposal of Infectious Waste
- HAR Title 11 Chapter 260-263 Hazardous Waste Management
- HAR Title 11 Chapter 273 Universal Waste Management
- HAR Title 11 Chapter 279 Used Oil Management
- HAR Title 11 Chapter 281 Underground Storage Tanks
- HAR Title 11 Chapter 451 State Contingency Plan
- HAR Title 19 Department of Transportation, Airports Division

**Hawaii Revised Statutes**

HRS 128D Environmental Response Law

HRS 128E Hawaii Emergency Planning and Community Right-to-Know Act

HRS 174C State Water Code

HRS 261 Transportation and Utilities

HRS 342-D Water Pollution

HRS 342-G Integrated Solid Waste Management

HRS 342-H Solid Waste Pollution

HRS 342-I Special Waste Management

HRS 342-J Hazardous Waste

HRS 342-L Underground Storage Tanks

HRS 342-N Used Oil Recycling

**City and County Ordinances**

City and County of Honolulu Sewer Ordinance 14

**Airport Rules**

Property Management Clauses

**APPENDIX II**  
**SUMMARY OF FEDERAL AND STATE REGULATIONS**  
**FOR SOLID WASTE MANAGEMENT**

Solid waste is defined in 40 CFR Part 261.2 of the RCRA regulations as well as the HAR Title 11, Chapter 261.2 (§11-261-2). Solid waste can be further classified into hazardous waste and non-hazardous waste. Hazardous waste is defined in 40 CFR Part 261.3 as well as §11-261-3. Hazardous wastes are divided into listed wastes, characteristic wastes, universal wastes, and mixed wastes. Hazardous waste generators are responsible for making a hazardous waste determination and to dispose of waste properly. The identification and listing of hazardous waste and standards applicable to hazardous waste generators are available in the 40 CFR Parts 261 and 262 as well as §11-261 and §11-262. The facility can determine their hazardous waste generator status based on the following table:

**Table 1 – Hazardous Waste Generator Status, Quantity, and Accumulation Time**

<b>Hazardous Waste Generator Status</b>	<b>Quantity Of Hazardous Waste Generated Per Calendar Month</b>	<b>On-site Accumulation Time</b>
Large Quantity (LQG)	<ul style="list-style-type: none"> <li>• <math>\geq</math> 1,000 kg (approximately 2,200 lbs);</li> <li>• <math>&gt;</math> 1 kg (approximately 2.2 lbs) of acute hazardous waste; and</li> <li>• <math>&gt;</math> 100 kg (approximately 220 lbs.) residue or contaminated soil from cleanup of acute hazardous waste spill.</li> </ul>	$\leq$ 90 days
Small Quantity (SQG)	<ul style="list-style-type: none"> <li>• Between 100 kg (approximately 220 lbs) and 1,000 kg (approximately 2200 lbs);</li> <li>• <math>&lt;</math> 1 kg (approximately 2.2 lbs) of acute hazardous waste;</li> <li>• <math>\leq</math> 100 kg (approximately 220 lbs.) residue or contaminated soil from cleanup of acute hazardous waste spill; and</li> <li>• Never accumulate more than 6,000 kg (approximately 13,200 lbs) at any one time.</li> </ul>	$\leq$ 270 days (for Hawaii, since hazardous waste is shipped 200 miles or more)
Conditionally Exempt Small Quantity (CESQG)	<ul style="list-style-type: none"> <li>• <math>\leq</math> 100 kg (approximately 220 lbs)</li> <li>• <math>&lt;</math> 1 kg (approximately 2.2 lbs) of acute hazardous waste;</li> <li>• <math>\leq</math> 100 kg (approximately 220 lbs.) residue or contaminated soil from cleanup of acute hazardous waste spill; and</li> </ul> <p>Never accumulate more than 1,000 kg (approximately 2,200 lbs) at any one time.</p>	Not applicable

Universal Waste, as defined in 40 CFR Part 273 and §11-273, includes batteries, some pesticides, mercury containing equipment (mercury thermostats), and bulbs (lamps). The Universal Waste rules are not applicable to the conditionally exempt small quantity generators of hazardous waste. Universal Waste handlers are classified into small quantity Universal Waste handlers and large quantity Universal Waste handlers. A small quantity handler of universal waste means a universal waste handler who does not accumulate more than 5,000 kilograms (approximately 11,000 lbs) total of universal waste (batteries, pesticides, or thermostats, calculated collectively) at any time (§11-273-6). A large quantity handler of universal waste means a universal waste handler who accumulates 5,000 kilograms or more total of universal waste (batteries, pesticides, or thermostats, calculated collectively) at any time (§11-273-6). This designation as a large quantity handler of universal waste is retained through the end of the calendar year in which 5,000 kilograms or more total of universal waste is accumulated.

Universal Waste must be managed in a way that prevents releases of any Universal Waste or component of a Universal Waste to the environment. Universal Waste must be labeled or marked to identify the type of universal waste as follows: Universal Waste - Batteries, Universal Waste - Lamps, Universal Waste – Pesticides, and Universal Waste – Mercury Containing Equipment or Universal Waste – Mercury Thermostat. Universal Waste can be stored for one year starting from the date the universal waste was generated. A large quantity Universal Waste handler shall retain the non-hazardous waste manifest associated with Universal Waste disposal at the facility for three years. A small quantity Universal Waste handler is not required to keep records of shipments of universal waste.

Used oil, as defined in 40 CFR Part 279.1 and §11-279-1, is regulated under the 40 CFR Part 279, §11-279, and §11-261-6(a)(4). Containers and aboveground tanks used to store used oil as well as fill pipes used to transfer used oil into UST at generator facilities must be labeled or marked clearly with the words “Used Oil”. Additionally, used oil generators are subject to all applicable SPCC requirements (40 CFR Part 112). Used oil generators are also subject to the State’s UST standards and any applicable federal standards for used oil stored in underground tanks whether or not the used oil exhibits any characteristics of hazardous waste.

***Appendix F***  
***Blank Discharge Monitoring Report***

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

NAME Department of Transportation, Airports Division  
Maui District

ADDRESS Kahului Airport Terminal Building  
Kahului, Maui, Hawaii 96732-2345

FACILITY Molokai Airport

LOCATION P.O. Box 273  
Hoolehua, Molokai, HI 96729-9999

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

HI R80A413	MKK 003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM			TO			

Form Approved.

OMB No. 2040-0004

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT							GPM			
	PERMIT REQUIREMENT					Report				1/365	
Biochemical Oxygen Demand	SAMPLE MEASUREMENT							mg/l			
	PERMIT REQUIREMENT					Report				1/365	
Chemical Oxygen Demand	SAMPLE MEASUREMENT							mg/l			
	PERMIT REQUIREMENT					Report				1/365	
Total Suspended Solids	SAMPLE MEASUREMENT							mg/l			
	PERMIT REQUIREMENT					Report				1/365	
Total Phosphorous	SAMPLE MEASUREMENT							mg/l			
	PERMIT REQUIREMENT					Report				1/365	
Total Nitrogen	SAMPLE MEASUREMENT							mg/l			
	PERMIT REQUIREMENT					Report				1/365	
Nitrate + Nitrite Nitrogen	SAMPLE MEASUREMENT							mg/l			
	PERMIT REQUIREMENT					Report				1/365	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.				TELEPHONE			DATE			
TYPED OR PRINTED											SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

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

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

NAME Department of Transportation, Airports Division  
Maui District

ADDRESS Kahului Airport Terminal Building  
Kahului, Maui, Hawaii 96732-2345

FACILITY Molokai Airport

LOCATION P.O. Box 273  
Hoolehua, Molokai, HI 96729-9999

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

HI R80A413	MKK 003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM			TO			

Form Approved.

OMB No. 2040-0004

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	SAMPLE MEASUREMENT							Standard Units			
	PERMIT REQUIREMENT				5.5		8.0			1/365	
Oil and Grease	SAMPLE MEASUREMENT							mg/l			
	PERMIT REQUIREMENT						15			1/365	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.				TELEPHONE			DATE			
TYPED OR PRINTED											SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

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

***Appendix G***  
***Previous Storm Water Monitoring Results***

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
NAME Department of Transportation, Airports Division

R80A413
PERMIT NUMBER

MKK 003
DISCHARGE NUMBER

Form Approved  
OMB No. 2040-0004

ADDRESS 400 Rodgers Boulevard 7<sup>th</sup> Fl  
Honolulu, HI 96819-1880

FACILITY Molokai Airport

LOCATION MKK 003  
Sampled on 12/04/09

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 09	01	01	TO	09	12	31

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Biochemical Oxygen Demand	SAMPLE MEASUREMENT				10.6	10.6	10.6	Mg/L	0	1/360	Grab
	PERMIT REQUIREMENT						Report			1/360	Grab
Chemical Oxygen Demand	SAMPLE MEASUREMENT				100	100	100	Mg/L	0	1/360	Grab
	PERMIT REQUIREMENT						Report			1/360	Grab
Total Suspended Solids	SAMPLE MEASUREMENT				62	62	62	Mg/L	0	1/360	Grab
	PERMIT REQUIREMENT						Report			1/360	Grab
Total Phosphorus	SAMPLE MEASUREMENT				0.86	0.86	0.86	Mg/L	0	1/360	Grab
	PERMIT REQUIREMENT						Report			1/360	Grab
Total Nitrogen	SAMPLE MEASUREMENT				14.9	14.9	14.9	Mg/L	0	1/360	Grab
	PERMIT REQUIREMENT						Report			1/360	Grab
Nitrate + Nitrite Nitrogen	SAMPLE MEASUREMENT				3.87	3.87	3.87	Mg/L	0	1/360	Grab
	PERMIT REQUIREMENT						Report			1/360	Grab
Total Kjeldahl Nitrogen	SAMPLE MEASUREMENT				11	11	11	Mg/L	0	1/360	Grab
	PERMIT REQUIREMENT						Need result for calculation			1/360	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.							TELEPHONE		DATE	
TYPED OR PRINTED								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

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

NAME Department of Transportation, Airports Division

ADDRESS 400 Rodgers Boulevard 7<sup>th</sup> Fl  
Honolulu, HI 96819-1880

FACILITY Molokai Airport

LOCATION MKK 003  
Sampled on 12/04/09

HI S000005	MKK 003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
09	01	01	TO	09	12 31

Form Approved  
OMB No. 2040-0004

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Oil and Grease	SAMPLE MEASUREMENT				ND	ND	ND	Mg/L	0	1/360	Grab
	PERMIT REQUIREMENT						15				1/360
pH	SAMPLE MEASUREMENT				6.85	6.85	6.85		0	1/360	Grab
	PERMIT REQUIREMENT				pH was run in the lab because of field equipment issues		5.5 - 8.0				1/360
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.							TELEPHONE		DATE	
TYPED OR PRINTED								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER

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

December 21, 2009

## LABORATORY REPORT

Client:

AFCOM Technical Services, Inc.  
Davies Pacific Center - 841 Bishop Street, Suite 500  
Honolulu, HI 96813  
Attn: Neil Pilum

Work Order: HSL0026  
Project Name: DOT-Airports  
Project Number: T06  
Date Received: 12/04/09

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Test-America and its client. This report shall not be reproduced, except in full, without written permission from Test-America.*

*Test-America Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.*

*The Chain(s) of Custody, 2 pages, are included and are an integral part of this report. This entire report was reviewed and approved for release.*

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

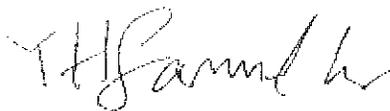
**Case Narrative: Total Nitrogen results were determined through the addition of Nitrate-Nitrite and Total Kjeldahl Nitrogen of the corresponding samples. Any result of "ND" is assumed as zero value.**

**Samples were received into laboratory at a temperature of 1 °C.**

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Approved By:



Samuel A. Lui For Mike D. Soliek  
Project Manager

NELAC Certification # E87907

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 \* 808-486-5227 \* Fax 808-486-2456

NECOM Technical Services, Inc.  
Davies Pacific Center - 841 Bishop Street, Suite 500  
Honolulu, HI 96813  
Neil Pillum

Work Order: HSL0026  
Project: DOT-Airports  
Project Number: TO6

Received: 12/04/09  
Reported: 12/21/09 11:20

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE AND TIME

mkk003

HSL0026-01

12/04/09 05:00

MECOM Technical Services, Inc.  
 Davies Pacific Center - 841 Bishop Street, Suite 500  
 Honolulu, HI 96813  
 Neil Pilam

Work Order: HSL0026  
 Project: DOT-Airports  
 Project Number: TO6

Received: 12/04/09  
 Reported: 12/21/09 11:20

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HSL0026-01 (mkk003 - Water - NonPotable)</b>						<b>Sampled: 12/04/09 05:00</b>	<b>Reevd: 12/04/09 17:40</b>		
<b>General Chemistry Parameters</b>									
BOD - 5 Day	10.6		mg/L	2.00	1	12/10/09 11:51	12/04/09	91/04013	14051
Hexane Extractable Material (HEM)	ND		"	5.00	"	12/10/09 11:54	12/07/09	91/07004	14604
Nitrate/Nitrite as N	3.87		mg/L as N	0.100	2	12/07/09 15:03		91/07006	13832
Nitrogen, Total	14.9		mg/L	0.750	1	12/18/09 16:31	12/18/09	91/18007	SM4500-N
Total Suspended Solids	62.0		"	1.00	"	12/09/09 15:44	12/08/09	91/08004	14612
<b>INORGANICS</b>									
Total Kjeldahl Nitrogen	11		mg/L	0.50	1	12/16/09 16:00	12/16/09	91/16126	1PA-3503
Chemical Oxygen Demand	100		"	20	"	12/16/09 09:33	12/15/09	91/15131	1PA-401
Phosphorus	0.86		"	0.12	"	12/16/09 10:40	12/16/09	91/16106	1PA-653

MECOM Technical Services, Inc.  
Davies Pacific Center - 811 Bishop Street, Suite 500  
Honolulu, HI 96813  
Net: Pflum

Work Order: IISL0026  
Project: DOT-Airports  
Project Number: T06

Received: 12/04/09  
Reported: 12/21/09 11:20

### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Default Wt/Vol	Extracted Vol	Default Vol	Date	Analysis	Extraction Method
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THE LEADER IN ENVIRONMENTAL TESTING

99-193 Area Heights Drive, Suite 121 Area, HI 96701 \* 808-486-5227 \* Fax 808-486-2456

MTCOM Technical Services, Inc.  
Davies Pacific Center - 841 Bishop Street, Suite 500  
Honolulu, HI 96813  
Neil Plumm

Work Order: IISL0026  
Project: DOT-Airports  
Project Number: TO6

Received: 12/04/09  
Reported: 12/21/09 11:20

### LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD Limit	Q
<b>General Chemistry Parameters</b>												
<u>Batch/Seq: 91.04013 Extracted: 12/04/09</u>												
Blank Analyzed: 12/10/2009 (91.04013-BLK1)												
BOD - 5 Day												
			mg/L	N/A	2.00	ND						
<u>Batch/Seq: 91.07004 Extracted: 12/07/09</u>												
Blank Analyzed: 12/10/2009 (91.07004-BLK1)												
Hexane Extractable Material (HEM)												
			mg/L	N/A	5.00	ND						
<u>Batch/Seq: 91.07006 Extracted: 12/07/09</u>												
Blank Analyzed: 12/07/2009 (91.07006-BLK1)												
Nitrate Nitrogen as N												
			mg/L as N	N/A	0.0500	ND						
<u>Batch/Seq: 91.08004 Extracted: 12/08/09</u>												
Blank Analyzed: 12/09/2009 (91.08004-BLK1)												
Total Suspended Solids												
			mg/L	N/A	1.00	ND						
<b>INORGANICS</b>												
<u>Batch/Seq: 91.15131 Extracted: 12/15/09</u>												
Blank Analyzed: 12/16/2009 (91.15131-BLK1)												
Chemical Oxygen Demand												
			mg/L	N/A	20	ND						
<u>Batch/Seq: 91.16106 Extracted: 12/16/09</u>												
Blank Analyzed: 12/16/2009 (91.16106-BLK1)												
Phosphorus												
			mg/L	N/A	0.050	ND						
<u>Batch/Seq: 91.16126 Extracted: 12/16/09</u>												
Blank Analyzed: 12/16/2009 (91.16126-BLK1)												
Total Kjeldahl Nitrogen												
			mg/L	N/A	0.50	ND						

ALCOM Technical Services, Inc.  
 Davies Pacific Center - 841 Bishop Street, Suite 500  
 Honolulu, HI 96813  
 Neil Pflam

Work Order: HSL0026  
 Project: DOT-Airports  
 Project Number: TO6

Received: 12/04/09  
 Reported: 12/21/09 11:20

## LABORATORY DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
<b>General Chemistry Parameters</b>												
<u>Batch/Seq: 9L04013 Extracted: 12/04/09</u>												
Duplicate Analyzed: 12/10/2009 (9L04013-DU P1)												
BOD 5 Day	5.02		mg/l	N/A	2.00	4.86				3	20	
<b>INORGANICS</b>												
<u>Batch/Seq: 9L15131 Extracted: 12/15/09</u>												
Duplicate Analyzed: 12/16/2009 (9L15131-DU P1)												
Chemical Oxygen Demand	585		mg/l	N/A	40	596				2	15	

AECOM Technical Services, Inc.  
 Davies Pacific Center - 841 Bishop Street, Suite 500  
 Honolulu, HI 96813  
 Neil Pflum

Work Order: HSL0026  
 Project: DOT-Airports  
 Project Number: TO6

Received: 12/04/09  
 Reported: 12/21/09 11:20

### LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup % REC	% REC Limits	RPD	RPD Limit	Q
<b>General Chemistry Parameters</b>													
<u>Batch\Seq: 9L04013 Extracted: 12/04/09</u>													
LCS Analyzed: 12/10/2009 (9L04013-BS1)													
BOD - 5 Day		198	mg/L	N/A	2.00	199		101		85-115		0	
<u>Batch\Seq: 9L07004 Extracted: 12/07/09</u>													
LCS Analyzed: 12/10/2009 (9L07004-BS1)													
Hexane Extractable Material (HEM)		20.0	mg/l	N/A	5.00	17.1	17.4	86	87	78-114	2	18	
<u>Batch\Seq: 9L07006 Extracted: 12/07/09</u>													
LCS Analyzed: 12/07/2009 (9L07006-BS1)													
Nitrate Nitrite as N		1.00	mg L as N	N/A	0.0500	0.982		98		80-120		20	
<u>Batch\Seq: 9L08004 Extracted: 12/08/09</u>													
LCS Analyzed: 12/09/2009 (9L08004-BS1)													
Total Suspended Solids		1000	mg/L	N/A	1.00	1010		101		80-120		20	
<b>INORGANICS</b>													
<u>Batch\Seq: 9L15131 Extracted: 12/15/09</u>													
LCS Analyzed: 12/16/2009 (9L15131-BS1)													
Chemical Oxygen Demand		200	mg/l	N/A	20	193		96		90-110			
<u>Batch\Seq: 9L16106 Extracted: 12/16/09</u>													
LCS Analyzed: 12/16/2009 (9L16106-BS1)													
Phosphorus		1.00	mg/l	N/A	0.050	0.942		94		80-120			
<u>Batch\Seq: 9L16126 Extracted: 12/16/09</u>													
LCS Analyzed: 12/16/2009 (9L16126-BS1)													
Total Kjeldahl Nitrogen		20.0	mg/l	N/A	0.50	20.4		102		85-120			

AECOM Technical Services, Inc.  
 Davies Pacific Center - 841 Bishop Street, Suite 500  
 Honolulu, HI 96813  
 Neil Plum

Work Order: HSL0026  
 Project: DOT-Airports  
 Project Number: TO6

Received: 12/04/09  
 Reported: 12/21/09 11:20

## MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup % REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>General Chemistry Parameters</b>													
<u>Batch\Seq: 9L07004 Extracted: 12/07/09</u>													
Matrix Spike Analyzed: 12/10/2009 (9L07004-MS1)				QC Source Sample: HSL0017-02									
Hexane Extractable Material (HEM)	4.07	20.0	mg/L	N/A	5.00	14.5		52		78-114		18	NI
<u>Batch\Seq: 9L07006 Extracted: 12/07/09</u>													
Matrix Spike Analyzed: 12/07/2009 (9L07006-MS1)				QC Source Sample: HSL0032-01									
Nitrate Nitrogen-N	0.0994	1.00	mg/L as N	N/A	0.0500	1.10	1.12	100	102	75-125	1	20	
<u>Batch\Seq: 9L08004 Extracted: 12/08/09</u>													
Matrix Spike Analyzed: 12/09/2009 (9L08004-MS1)				QC Source Sample: HSL0026-01									
Total Suspended Solids	62.0	1330	mg/L	N/A	1.00	1410	1400	101	100	75-125	0	20	
<b>INORGANICS</b>													
<u>Batch\Seq: 9L15131 Extracted: 12/15/09</u>													
Matrix Spike Analyzed: 12/16/2009 (9L15131-MS1)				QC Source Sample: ISL1151-01									
Chemical Oxygen Demand	ND	200	mg/l	N/A	20	196	198	98	99	70-120	1	15	
Matrix Spike Analyzed: 12/16/2009 (9L15131-MS2)				QC Source Sample: ISL1289-02									
Chemical Oxygen Demand	ND	200	mg/l	N/A	20	210		105		70-120			
<u>Batch\Seq: 9L16106 Extracted: 12/16/09</u>													
Matrix Spike Analyzed: 12/16/2009 (9L16106-MS1)				QC Source Sample: ISL1121-01									
Phosphorus	0.160	1.00	mg/l	N/A	0.050	0.950	0.952	85	85	65-130	0	15	
<u>Batch\Seq: 9L16126 Extracted: 12/16/09</u>													
Matrix Spike Analyzed: 12/16/2009 (9L16126-MS1)				QC Source Sample: ISL1062-02									
Total Kjeldahl Nitrogen	0.840	10.0	mg/l	N/A	0.50	10.6	11.2	98	104	85-120	5	15	

ALCOM Technical Services, Inc.  
Davies Pacific Center - 841 Bishop Street, Suite 500  
Honolulu, HI 96813  
Neil Pillum

Work Order: HSL0026  
Project: DOT-Airports  
Project Number: TO6

Received: 12/04/09  
Reported: 12/21/09 11:20

## CERTIFICATION SUMMARY

### TestAmerica Honolulu

Method	Matrix	Nelac	Hawaii
E160.2	Water - NonPotable	X	
E166-IA	Water - NonPotable	X	
E353.2	Water - NonPotable	X	X
E405.1	Water - NonPotable	X	
SM14500-N	Water - NonPotable		

### Subcontracted Laboratories

TestAmerica - Irvine, CA

17461 Derian Avenue Suite 100 - Irvine, CA 92614

Method Performed: EPA 351.3  
Samples: HSL0026-01

Method Performed: EPA 365.3  
Samples: HSL0026-01

Method Performed: EPA 410.4  
Samples: HSL0026-01

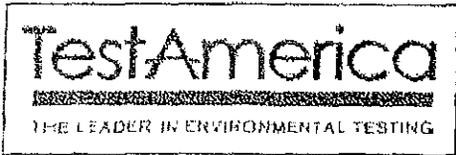
*For information concerning certifications of this facility or another TestAmerica facility, please visit our website at [www.TestAmerica.com](http://www.TestAmerica.com)*

## DATA QUALIFIERS AND DEFINITIONS

- MI** The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).  
**ND** Not detected at the reporting limit (or method detection limit if shown)

## ADDITIONAL COMMENTS





**Sample Receipt Checklist**

Client Name: AECOM Date/ Time Received: 1740 12/4/05

Checklist Completed By: M Received By: [Signature]

Matrices: H<sub>2</sub>O Carrier: Courier Airbill#: \_\_\_\_\_

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present  #: \_\_\_\_\_
- Custody seals intact on sample bottles? Yes  No  Not Present  #: \_\_\_\_\_
- Chain of Custody present? Yes  No
- Chain of Custody Signed when relinquished and received? Yes  No
- Chain of Custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sample containers on ice? Yes  No  Type: gel
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Water - VOA Vials have Zero Headspace? Yes  No  No VOA vials present:
- Water - pH acceptable upon receipt? Yes  No  Not Checked:
- pH Adjusted? Yes  No  Final pH: \_\_\_\_\_
- Encores / 5035 Vials Present? Yes  No
- Sample Filtration Needed? Yes  No  Filtered in Field:
- Dry Weight Corrected Results? Yes  No  Take Action:
- DODQSM / QAPP Project? Yes  No  Type: \_\_\_\_\_

Temperature Blank Present? Yes  No

Sample Container/Blank Temperature Range (Minimum 3 sample containers if available): 1 °C

**Comments/ Sampling Handling Notes:**

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Storm Water Sampling Form

MKK Airport, Molokai

Sampling Location: MKK 003 Molokai Airport		Date: 12/3 - 12/4/09	
		Project Number:	
Sampling Personnel: Duane M. Dawson			
Weather Conditions: stormy - dark - lightning.			
Observations/Comments			
Instrument	Manufacturer	Model	Serial No.
pH Meter			
Calibration results:			
Comments:			
Time at Start of Rain: 1732		Time of First Discharge: 1948	
pH: Beginning 6.8 finish 4.6			
Sample Collection Method: 4" A" bottle Auto sampler			
Flow-Measurement Method: Auto-sampler		Average Flow 2.2	
Sample Appearance: Lite Br. Dirty	Odor: Lite Br. None	Color: Lite Br.	
Floating Debris: Dirt/grass	Scum or Foam: - 0	Oil Sheen: ?	
SAMPLE ID	TIME SAMPLED	FLOW	COMMENTS
Oil and Grease			
Aliquot A			
Aliquot B			
Aliquot C			
Comments: Error - 4 bottle caught. pump hose pinched by grass segment during flow.			

*Appendix H*  
*MKK NPDES and Administrative Extension*

LINDA LINGLE  
GOVERNOR OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P. O. BOX 3378  
HONOLULU, HI 96801-3378

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

In reply, please refer to:  
DOH/CWB

R80A413.EXT

October 19, 2007

The Honorable Barry Fukunaga  
Director  
Department of Transportation  
869 Punchbowl Street  
Honolulu, Hawaii 96813-5097

Dear Mr. Fukunaga:

**Subject: Administrative Extension of  
Notice of General Permit Coverage (NGPC)  
State of Hawaii, Department of Transportation  
Molokai Airport, Molokai, Hawaii  
File No. HI R80A413**

The Department of Health (Department), Clean Water Branch (CWB), acknowledges receipt of your Notice of Intent (NOI) and \$500 filing fee for coverage under the National Pollutant Discharge Elimination System general permit provisions, in accordance with the Hawaii Administrative Rules (HAR), Section 11-55-34.08.

The Department is unable to complete the processing of your project's NOI prior to the current NGPC expiration date. Therefore, in accordance with HAR, Section 11-55-34.09(d), the Department hereby administratively extends the subject NGPC until a notice of renewed coverage under the applicable general permit is issued or until notified by the Department, whichever occurs first. Please note that the Department may request you submit additional information in order to complete the processing of your NOI for the renewed coverage.

The Permittee shall not be held in violation of Hawaii Revised Statutes, Chapter 342D-6(h), and HAR, Chapter 11-55, during the pendency of its NOI, so long as it acts consistently with the NGPC presently granted. **Note: The Permittee shall continue sampling as required by the current NGPC.** Any non-compliance with the conditions of the administratively extended NGPC may be subject to penalties of up to \$25,000 per violation per day.

It is the Permittee's responsibility to ensure that anyone working under this administrative extension of your NGPC understands and complies with the terms and conditions therein.

The Honorable Barry Fukunaga

October 19, 2007

Page 2

If you have any questions, please contact Mr. Reef Migita of the Engineering Section, CWB, at 586-4309.

Sincerely,



FOR Chiyome Leinaala Fukino, M.D.  
Director of Health

c: Mr. Roy Sakata, DOT-AIR [via fax 838-8067 only]

Ms. Michelle Mason, Earth Tech, Inc. (w/Receipt No. 31825 for \$500 filing fee)

1125.05

LINDA LINGLE  
GOVERNOR OF HAWAII



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

STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P.O. BOX 3378  
HONOLULU, HAWAII 96801-3378

In reply, please refer to:  
EMD / CMB

R80A413.FNL

June 22, 2005

The Honorable Rodney K. Haraga  
Director  
Department of Transportation  
869 Punchbowl Street  
Honolulu, Hawaii 96813-5097

Dear Mr. Haraga:

**Subject: NOTICE OF GENERAL PERMIT COVERAGE (NGPC)  
National Pollutant Discharge Elimination System (NPDES)  
State of Hawaii, Department of Transportation  
Molokai Airport, Molokai, Hawaii  
File No. HI R80A413**

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,

**DEPARTMENT OF TRANSPORTATION (DOT)  
AIRPORTS DIVISION (AIR)**

(hereinafter PERMITTEE)

is authorized to discharge storm water runoff associated with industrial activity from Molokai Airport located on Keonelele Avenue, Molokai, Hawaii, TMK: 5-2-004:008, 064, 065, 077, 082, 083, 084, 106, 107, 108, 110, 111, 115, 116, 120, and 121 to the receiving State water named Kalaupeelua Gulch, a Class 2, Inland Water, at the coordinates: Latitude 21°09'07"N and Longitude 157°05'45W.

This NGPC is issued for storm water runoff from only those portions of the facility that are involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), or equipment cleaning operations.

**This NGPC will take effect on the date of this notice. This NGPC will expire at midnight, November 6, 2007, or when amendments to HAR, Chapter 11-55, Appendix B, are adopted,**

The Honorable Rodney K. Haraga  
June 22, 2005  
Page 2

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) application, dated September 19, 2002.
5. Retain a copy of the NOI; the Storm Water Pollution Control Plan (SWPCP) and all subsequent revisions, if applicable; and this NGPC at the facility.
6. Submit the following information to the Clean Water Branch (CWB) within 45 days (Friday, August 5, 2005) of the date of this letter.
  - a. Description of the non-storm water(s) and handling methods used to prevent discharge to State waters;
  - b. Test method for Total Nitrogen (Note: Total Nitrogen is the sum of Total Kjeldahl Nitrogen plus Nitrate + Nitrite); and
  - c. Discharge Monitoring Reports for monitoring years 2001, 2002, 2003, and 2004.
7. Sample the storm water discharge for all the parameters listed in the Clean Water Branch (CWB) NOI Form B, Section 18.a. These monitoring results shall be submitted within 30 days of sampling to the CWB on CWB-NOI Form B (Rev. 9/30/2004), Section 18.a.

The Honorable Rodney K. Haraga  
 June 22, 2005  
 Page 3

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)	{4}	Annually	Calculated or Estimated
Biochemical Oxygen Demand (5-Day) (mg/l)	{4}	Annually	Grab or Composite
Chemical Oxygen Demand (mg/l)	{4}	Annually	Grab or Composite
Total Suspended Solids (mg/l)	{4}	Annually	Grab or Composite
Total Phosphorus (mg/l)	{4}	Annually	Grab or Composite
Total Nitrogen (mg/l) {5}	{4}	Annually	Grab or Composite
Nitrate + Nitrite Nitrogen (mg/l)	{4}	Annually	Grab or Composite
Oil and Grease (mg/l)	15	Annually	Grab {6}
pH Range (Standard Units)	5.5-8.0	Annually	Grab {7}

mg/l = milligrams per liter = 1000 micrograms per liter  
 µg/l = micrograms per liter

NOTES:

- {1} 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.
- {3} 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.

The Permittee shall analyze the sample collected during the first 15 minutes as a grab sample. If two (2) or more samples are collected, the Permittee shall analyze the samples as a composite sample.

"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.

The Honorable Rodney K. Haraga

June 22, 2005

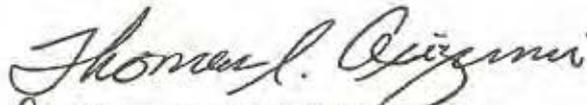
Page 4

- {4} No limitation at this time. Only monitoring and reporting is required.
  - {5} 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).
  - {6} The Permittee shall measure Oil and Grease using EPA Method 1664, Revision A.
  - {7} The Permittee shall measure pH within 15 minutes of obtaining the grab sample.
9. Revise the SWPCP should any discharge limitation or water quality standards established in HAR, Section 11-54-4, for saltwater be exceeded. The revisions shall include Best Management Practices and/or other measures to reduce the amount of pollutants found to be in exceedance from entering 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. Complete and submit the Notice of Cessation (NOC) Form (CWB-NOC Form) to the CWB within two (2) weeks of cessation of industrial activities at the subject facility. The CWB-NOC Form can be downloaded from our website at:  
<http://www.hawaii.gov/health/environmental/water/cleanwater/index.html>

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

If you have any questions, please contact Mr. Reef Migita of the Engineering Section, CWB, at 586-4309.

Sincerely,

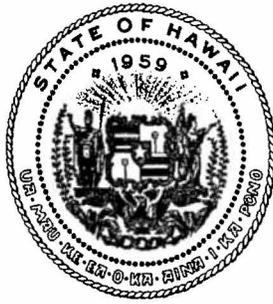
  
for Chiyome Leinaala Fukino, M.D.  
Director of Health

- 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

- c: Mr. Brian Sekiguchi, DOT-AIR (w/o encls.) [via fax 838-8734 only]  
Mr. Dale Tsubaki, DOT-AIR (w/o encls.) [via fax (808) 872-3829 only]  
Mr. Charles Schuster, EKNA Services, Inc. (w/o encls.) [via fax 593-8551 only]

# *Appendix I*

## *UIC Permit*



**STATE OF HAWAI`I  
DEPARTMENT OF HEALTH**

**UNDERGROUND INJECTION CONTROL (UIC)**

**PERMIT NO. UM-1375**

**FACILITY IDENTIFICATION NO. 4.0905.01**

**for**

**MOLOKAI AIRPORT (DRAINAGE WELLS)**

***Operated By  
Airports Division  
Department of Transportation  
State of Hawai`i***

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Injection Well Location Plan . . . . . Attachment

AUTHORIZATION TO OPERATE UNDER THE  
UNDERGROUND INJECTION CONTROL PROGRAM

In compliance with the provisions of the Safe Drinking Water Act, Chapter 340E, Hawai`i Revised Statutes (HRS), as amended, and Hawai`i Administrative Rules (HAR), Title 11, Chapter 23, Underground Injection Control, as amended;

MOLOKAI AIRPORT (DRAINAGE WELLS)  
Operated By  
Airports Division, Department of Transportation  
State of Hawai`i

is authorized to operate a Class V, Subclass C, drainage injection well system consisting of four (4) injection wells having diameters of approximately two (2) inches to eight (8) feet and depths of approximately eight (8) to one hundred ten (110) feet to dispose of untreated rainfall runoff water;

located at Ho`olehua, Molokai, Hawai`i;

at Tax Key Number: 2<sup>nd</sup> Division 5-2-04:various;

at coordinates: Latitude: 21° 09' 30" N and Longitude: 157° 05' 45" W;

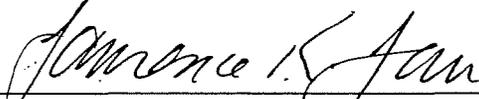
under Facility Identification Number: 4-0905.01;

in accordance with monitoring conditions and other terms and conditions set forth in Parts I, II, and III hereof.

This permit becomes effective upon issuance.

This permit and the authorization to operate the four injection wells will expire at midnight, April 14, 2009.

Issued on the 15<sup>th</sup> day of April 2004.

  
\_\_\_\_\_  
(For) Director of Health

A. OPERATING CONDITIONS:

1. Injectant Characteristics

Untreated rainfall runoff water from the roadway and pavement areas.

2. Injection Limitations and Prohibitions

- (a) Injectant in this permit is exclusively limited to the injectant described in Part I A.1. above; furthermore, any injectant not described in Part I A.1. is explicitly prohibited unless the injectant characteristics of this permit are revised accordingly.
- (b) No discharge of hazardous wastes as defined by Title 40, Code of Federal Regulations (CFR), Part 261.
- (c) Injection Pressure: Result of gravity flow of the runoff water into the injection well.
- (d) Disposal Quantity and Rate: Intermittent and variable.

B. MONITORING AND REPORTING CONDITIONS:

1. Injectant and Injection Well Monitoring

- (a) A periodic recorded inspection of the drainage injection wells at least once every two (2) months shall be conducted. An inspection record shall be maintained by the permittee and subject to inspection by departmental personnel. Measurements of flow discharge shall be made during the inspection, if applicable. The inspection shall include the recordation of the operational status of the injection well and provide the opportunity to correct any occurrence of prohibited discharge activity.
- (b) Injectant samples, measurements, and analyses taken or conducted as required by this permit shall be valid and representative of the volume and nature of the injectant. Pursuant to any monitoring and reporting conditions of this permit, detailed records of the operation of the injection wells shall be kept by the permittee. When applicable, records shall include at a minimum the following information:
  - (1) Type of injectant.
  - (2) Quantity of injectant.
  - (3) The method of injection.
  - (4) Injection pressure.
  - (5) The rate of injection.
  - (6) The operational status of the injection well.
  - (7) The exact date and time of the measurement or sampling.
  - (8) The person(s) who performed the measurement or sampling.
  - (9) The dates the analyses were performed.
  - (10) The person(s) who performed the analyses.
  - (11) The analytical techniques or methods used.
  - (12) The results of all required analyses and permit limits.
  - (13) Chain of Custody
- (c) The nature of rainfall runoff water discharge is such that the measurement of a flow discharge is not always practicable. Therefore, flow may be calculated for monitoring purposes by using the estimated precipitation during a monitoring period with respect to the drainage area served by the injection well. Flow may also be visually determined by estimating the quantity of runoff water being disposed of in the injection well per unit time.

- (d) The person conducting the periodic inspection shall be knowledgeable of what is unlawful disposal of chemical compounds, petroleum products and other hazardous substances into the injection well. If such activities are encountered, the permittee shall take immediate action to alleviate, correct, clean up, and record such disposal incidents.
  
- (e) Under applicable conditions, the Director shall have the right to order and direct the permittee to collect and analyze samples of the injectant or substance in the injection well, or to perform injection well performance or mechanical integrity assessments. Applicable conditions consist of, but are not limited to, accidental discharges, malicious discharges, and undefined discharges into the injection well, as well as indications that the injection well may be under performance or mechanical integrity deterioration. The permittee is required to maintain records of the sample collection, analysis, and assessment in conformance with Part I B. 1. (b) of this permit.

2. Accurate, Current, and Representative Information

The submission of records, analytical results, recorded inspections, status reports, and any other reportings as specified and required by this permit shall be truthful, accurate, current, and representative of the activity being monitored within the specified time frame for monitoring. The submission of false, inaccurate, noncurrent, and/or unrepresentative records, results, inspections, reports, and any other required information, or the nonsubmission of the required materials, is a violation of this permit.

3. Reporting of Noncompliance of Injectant Concentrations

The permittee shall notify the Department of any exceedings of or noncompliance with the concentrations or limitations specified in Part I A. 2. Injection Limitations, as determined by the monitoring and analyses specified in this permit. The notification shall consist of a report that shall include the analytical results and an explanation for the exceeding or noncompliance. The report shall be submitted to the Department within fifteen (15) days of knowledge of the exceeding or noncompliance.

4. Additional Monitoring and Reporting

If the operation of the injection wells is additionally regulated by other pollution control programs, e.g., National Pollutant Discharge Elimination System (NPDES), the adherence to those monitoring and reporting conditions shall not be circumvented by the terms and conditions of this permit.

5. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, and the calibration and maintenance of applicable facility instrumentation, shall be retained on site for a minimum of three (3) years from the date of procurement and shall be made available for inspection by departmental personnel. This period may be extended by the request of the Director at any time.

6. Anticipated Changes

The permittee shall give notice a minimum of 60 days in advance to the Department of any planned changes in the facility or facility's activity which may significantly change any operating characteristics or specifications of the injection wells; or which may result in noncompliance with the permit conditions. Advance notice shall be of sufficient time to allow for the Department's evaluation of planned changes and revision, if necessary, of any term or condition of this permit. Changes, modifications, revisions or construction on the operating characteristics or specifications of the injection wells shall not be implemented unless approved by the Director.

7. Advance Notification of Change in Operator, Ownership, Control, or Facility Name

In the event of a pending change in operator (permittee), ownership, control, or facility name of the injection wells, the permittee shall report the pending change to the Department in writing at least 90 days prior to the closing. Until such time that this permit is revoked and/or reissued, the permittee of record shall be responsible for the injection wells and injection well operations, and for any damages resulting from the injection wells and operations.

The permittee of record shall notify the pending operator and/or owner in adequate time in order for the pending operator/owner to apply to the Department, using a change-of-operator application, to obtain this permit in coordination with closing. Upon satisfactory completion of the change-of-operator application, this permit may be reissued to the new operator of the injection well facility.

8. Twenty-Four Hour Reporting

Under any of the following conditions, an oral report is required within 24 hours from the time the permittee becomes aware of the circumstances:

- (a) Monitoring, or other information, which indicates that the injection activity is causing or could cause an endangerment to a USDW;
- (b) Malfunction of the injection system which causes or could cause fluid migration into, out of, or between geologic formations via the well bore;
- (c) Overflow of the injection well;
- (d) Discharge into the injection well of prohibited chemical compounds, hazardous wastes, or unauthorized substances;
- (e) Impairment of the injection well including and not limited to a collapsed well casing or well bore, well bore obstruction, lost injection well, or damage to the injection well resulting in a loss of use; or
- (f) Unsafe working or public conditions resulting from the operation of the injection well.

A written report shall also be submitted within five (5) days of the time the permittee becomes aware of the circumstances. The written report shall contain a description of the incident and its cause, including exact dates and times, and if the incident has not been mitigated, the anticipated length of time that it is expected to continue; also, planned or accomplished measures to reduce, eliminate and prevent the reoccurrence of the incident.

Oral reports during the weekday hours of 7:45 a.m. to 4:30 p.m. shall be made to the Safe Drinking Water Branch at (808)586-4258 (Honolulu) or call from Molokai the toll free number 1-800-468-4644, ext. 64258. For Maui district oral reports, the Safe Drinking Water Branch's Maui district sanitarian may be notified at (808) 984-8234. For evenings, weekends and holidays, all calls shall be made to (808) 247-2191 (Honolulu). The Director may waive the written report and/or the 5-day reporting time limit on a case-by-case basis if the oral report proves satisfactory in meeting the reporting requirements of the written report.

A record shall be kept by the permittee of all incidences subject to oral reporting under this section. Record keeping shall minimally include the nature and cause of the incident, date, time, duration, name of reporting person, and mitigative action.

9. Definitions

- (a) The "Department" means the Department of Health, State of Hawai`i.
- (b) The "Director" means the Director of Health or a duly authorized representative.
- (c) "Facility or activity" means any UIC "injection well" or any other facility or activity that is subject to regulation under the UIC Program.
- (d) "Fluid" means any material or substance which flows or moves whether in a semisolid, liquid, sludge, gas or any other form or state.
- (e) "Injection Pressure" means the head increase in the well bore with respect to static groundwater level.
- (f) "Injection Well" means a well into which subsurface disposal of fluid or fluids occurs or is intended to occur by means of injection.
- (g) "USDW" means "underground source of drinking water" as defined in Chapter 11-23.
- (h) "Well" means a bored, drilled or driven shaft, or a dug hole, whose depth is greater than its widest surface dimension.

A. MANAGEMENT CONDITIONS:

1. Change in Discharge

All operation of injection wells authorized herein shall be consistent with the terms and conditions of this permit. The operation of any injection well identified in this permit at volumes or concentrations in excess of that authorized shall constitute a violation of the permit conditions. Any anticipated facility changes including expansions, production increases, or process modifications which would result in new, different, or increased discharges of injectant shall be reported by submission of a UIC application. If such changes are not expected to violate the injection limitations specified in this permit, such changes may be submitted to the Department in writing instead of a UIC application, whereby the Department will determine if a UIC application would be necessary. Following the written submission of anticipated changes or the submission of a UIC application, this permit may be revoked or modified to specify and limit any injectant not previously authorized by this permit.

2. Signatory Statement

All reports or information submitted to the Department pursuant to this permit shall be signed by the permittee.

3. Availability of Reports

All reports prepared in accordance with the conditions of this permit shall be available for public inspection, with the approval of the Director, at appropriate offices of the Department. Permit applications, permits, and well operation data shall not be considered confidential.

4. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all systems of treatment and control, and related appurtenances, which are installed or used by the permittee to operate the injection wells and to achieve compliance with the conditions of this permit. Proper operation and maintenance include and are not limited to sound engineering principles and practices, effective performance, adequate funding, adequate operator staffing and training, adequate laboratory and process controls, and appropriate quality assurance procedures. Furthermore, effective performance means and is not limited to no contamination of a USDW, no unintended subsurface fluid migration, no injection well overflow, no prohibited discharges, no loss or excessive sedimentation of the injection well, and no creation of unsafe working or public conditions.

5. Permit Reapplication

If the permittee desires to continue an activity regulated by this permit after the expiration date of this permit, reapplication shall be made on appropriate application forms then in use. This reapplication shall be made not later than 180 days before this permit expires in order to facilitate processing of the renewal.

6. Permit Extension

The Director may grant an administrative extension to this permit to authorize the continued operation of the injection wells beyond the permit's expiration date. The administrative extension will at a minimum describe the duration of the administrative extension and the conditions under which the administrative extension is granted.

7. Injection Well Abandonment

Every injection well that is not performing its intended purpose or is determined to be a threat to the groundwater resource shall be abandoned when ordered by the Director.

The permittee who wishes or is ordered to abandon an injection well shall submit an application containing the details of the proposed abandonment at least 60 days before the anticipated start of backfilling work. The Department will review the application and may specify that the injection well be backfilled in a manner which would not allow the infiltration or movement of fluid into, out of, or throughout the well bore. The Department will specify abandonment procedures and provide information for the permittee to complete the Abandonment of Injection Well Summary Report upon completion of backfilling. Abandonment procedures shall also comply with other applicable regulations including those of the Department of Land and Natural Resources.

B. GENERAL CONDITIONS

1. Operating Conditions

- (a) No injection well shall be operated, kept, or otherwise utilized without a UIC permit issued by the Department unless such injection well is exempted from a UIC permit as determined by the Director.
- (b) No person shall construct, operate, maintain, convert, plug, abandon or conduct any other injection activity in a manner which allows the movement of fluid containing a contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water rule or may otherwise adversely affect the health of one or more persons.
- (c) The injection wells shall be operated in such a manner that they do not violate any of Hawai'i Administrative Rules, Title 11, regulating various aspects of water quality and pollution, and Chapter 342, HRS. The rules include:
  - (1) Chapter 11-20, Potable Water Systems.
  - (2) Chapter 11-55, Water Pollution Control.
  - (3) Chapter 11-62, Wastewater Systems.
- (d) If at any time the Department learns that an injection well may cause a violation of primary drinking water rules, the Director shall order the permittee to take such actions as may be necessary to prevent the violation, including, where required, cessation of operation of the injection well.
- (e) Notwithstanding any other condition of this section, the Director will issue an order to immediately cease and desist injection upon receipt of factual information that the injectant has caused or is likely to cause imminent and substantial danger to the health of a person or persons due to contamination of a drinking water source.

2. Permit Issuance

A copy of this permit shall be retained by the permittee and shall be made available for inspection by departmental personnel.

This UIC permit shall not be transferable from the permittee to any other person.

This UIC permit shall be subject to revocation, suspension or revision by the Director if, after notice and opportunity for a contested hearing, it is determined that:

- (a) There is a violation of any term or condition of the UIC permit; or
- (b) The UIC permit was obtained by misrepresentation, or failure to fully disclose all relevant facts; or
- (c) The UIC permit was willfully defaced, altered, forged or falsified; or
- (d) There exists a legal, environmental, or public health condition that requires either a temporary or permanent reduction or elimination of the permitted injection; or
- (e) There is a failure to comply with Chapter 11-23 or any other applicable rules or laws.

All permit conditions will remain in effect despite the filing of a request by the permittee for a permit revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance.

3. Permit Modification

Any modification, alteration, or change to this permit shall be made only by written supplement or reissuance of the permit by the Department.

4. New Rules and Regulations

The occurrence of new rules and regulations affecting underground injection, typically occurring as amendments to existing rules and regulations, may require that limitations or conditions within the permit be revised accordingly. Revisions to the permit, depending on the nature of the revision, may occur as a written supplement or an administrative reissuance of the permit, or it may require that the permit be reopened, via an application, before reissuance is accomplished.

Existing limitations and conditions within the permit shall not be grounds for superseding new rules and regulations that would otherwise warrant a revision of the permit. The responsibility for knowing about and understanding new, as well as existing, rules and regulations that affect the permit is upon the permittee.

5. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

6. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

7. Right of Entry

Departmental personnel shall have the right to enter premises on which any injection well system is located; to inspect any equipment, operation, or sampling of any injection well system; to take effluent or injectant samples from any injection well system; and to have access to and copy any record required to be kept pursuant to this permit.

8. Need to Halt or Reduce an Activity Not a Defense

It shall not be a defense for a permittee to claim in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

9. Penalties

It shall be a violation of Chapter 11-23 for any person, owner or operator of an injection well to construct, operate, maintain or abandon that injection well unless authorized in writing by the Director. It shall also be a violation of Chapter 11-23 for any permittee to fail to comply with the terms and conditions of this permit including those relating to inspection, monitoring, record keeping, and reporting. Compliance with a corrective order shall not excuse the basic violation. Any person who violates any provision of Chapter 11-23 or the terms and conditions of this permit shall be subject to the penalties provided in section 340E-8, HRS or section 11-23-22, HAR.

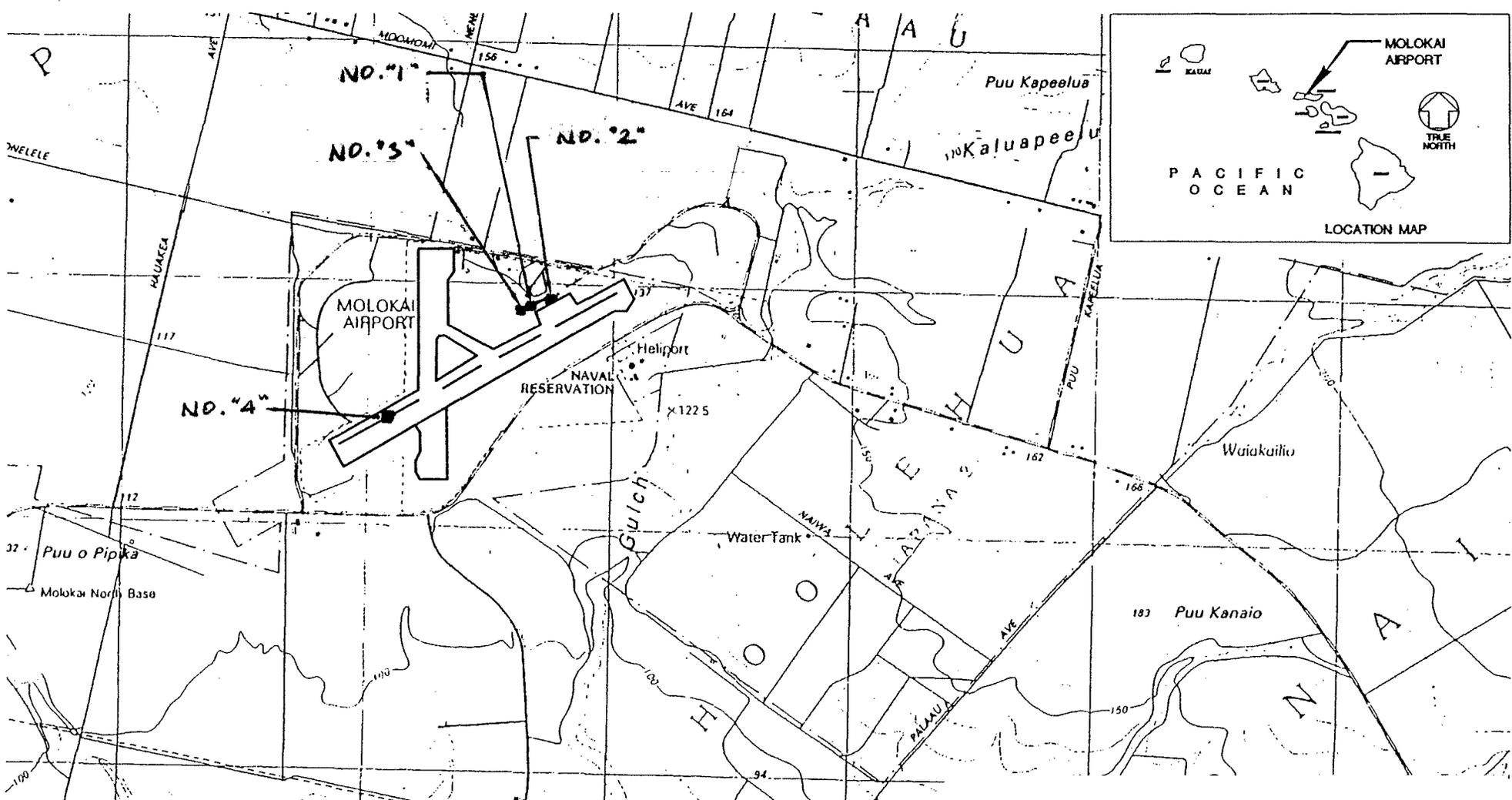
10. Severability

The conditions of this permit are severable; if any condition of this permit or the application of any condition of this permit to any circumstance is held invalid, the application of such condition to other circumstances and the remainder of this permit shall not be affected thereby.

A. OTHER CONDITIONS:

1. Modifications to Monitoring and Reporting

This permit herein acknowledges that environmental and facility operating conditions affecting the monitoring and reporting conditions of this permit could warrant the Department's reevaluation of permit conditions in order to address changing concerns and to establish relevant analyses. Modifications to the monitoring and reporting conditions, resulting from reevaluations, shall be approved by the Director before implementation.



Source: USGS 1:25 Metric 1983

**DRAINAGE INJECTION WELL LOCATION PLAN**

**MOLOKAI AIRPORT (DRAINAGE WELLS)**

Located at Ho`olehua, Molokai, Hawai`i

UIC Permit No. UM-1375

Drainage Well Location & No.

■ "1"



**Airports Division**