

**REPORT TO THE
TWENTY-FOURTH LEGISLATURE
STATE OF HAWAII
2008**

**ENVIRONMENTAL RESPONSE
AND
HAWAII EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW**

**PURSUANT TO CHAPTERS 128D AND 128E,
HAWAII REVISED STATUTES
REQUIRING THE DEPARTMENT OF HEALTH TO REPORT
ENVIRONMENTAL RESPONSE LAW AND
HAWAII EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT
FINANCIAL AND ENVIRONMENTAL SITE INFORMATION
FY 2007**

**PREPARED BY:
STATE OF HAWAII
DEPARTMENT OF HEALTH
DECEMBER 2007**

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GLOSSARY OF ABBREVIATIONS AND ACRONYMS

ABC	Association of Board's of Certification
ABLES	Adult Blood Lead Epidemiology and Surveillance
AG	Attorney General
AIR	Airway Function, Inflammation, Heart Rhythm
AOC	Area of Concern
AST	Above-ground Storage Tank
ATS	American Thoracic Society
BaP	benzo(a)pyrene
BLL	Blood Lead Levels
C&C	City and County
CA	Cooperative Agreement
CAA	Clean Air Act
CAB	Clean Air Branch
CCA	Copper, Chromium, Arsenate
CCL ₄	Carbon Tetrachloride
CDC	Centers for Disease Control
CDX	Central Data Exchange
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CEU	Continuing Education Credit
CFR	Code of Federal Regulations
CLH	Clinical Laboratories of Hawai`i
COC	Contaminants of Concern
CST	Civil Support Team
CWB	Clean Water Branch
dba	Doing business as
DBEDT	Department of Business, Economic Development, and Tourism
DERP	Defense Environmental Restoration Program
DHHL	Department of Hawai`ian Home Lands
DLNR	Department of Land and Natural Resources
DLS	Diagnostic Laboratory Services
DOA	Department of Agriculture
DOCD	Disease Outbreak Control Division
DOD	Department of Defense
DOH	Department of Health

GLOSSARY OF ABBREVIATIONS AND ACRONYMS

DOT	Department of Transportation
DSMOA	Department of Defense/State Memorandum of Agreement
DVD	Digital Video Disc
EAL	Environmental Action Level
ECU	Environmental Crimes Unit
EHA	Environmental Health Administration
EHS	Environmental Health Specialist
ECDRS	Electronic Communicable Disease Reporting System
EMD	Environmental Management Division
Env.	Environmental
EP&R	Emergency Preparedness and Response (Section)
EPA	(United States) Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-To-Know Act
EPI	Epidemiology
EPO	Environmental Planning Office
ERRF	Environmental Response Revolving Fund
ESWTR	Enhanced Surface Water Treatment Rule
FAMIS	Financial Accounting Management Information System
FBI	Federal Bureau of Investigation
FBRR	Filter Backwash Recycling Rule
fka	Formerly known as
FTE	Full Time Equivalents
FUDS	Formerly Used Defense Sites
FUDS MMRP	Formerly Used Defense Sites Military Munitions Response Program
F/V	Foreign Vessel
FY	Fiscal Year
GF	General Fund
GIS	Geographic Information System
GPRA	Government Performance Reports Act
HACD	Hawai`i Association of Conservation Districts
HAFB	Hickam Air Force Base
HAR	Hawai`i Administrative Rule
HAZMAT	Hazardous Material
HCDA	Hawai`i Community Development Authority
HEER	Hazard Evaluation and Emergency Response (Office)

GLOSSARY OF ABBREVIATIONS AND ACRONYMS

HEPCRA	Hawai`i Emergency Planning and Community Right-To-Know Act
HEPF	Hawai`i Energy Policy Forum
HIOSH	Hawai`i Occupational Safety and Health Division
HPD	Honolulu Police Department
HRS	Hawai`i Revised Statute
HSERC	Hawai`i State Emergency Response Commission
HTH	Health
JABSOM	John A. Burnes School of Medicine
IDPP	Iwilei District Participating Parties
IT	Information Technology
ITS	Information Technology Specialist
KSR	Kaiser Hospital
LAN	Local Area Network
LAN/WAN	Local Area Network/Wide Area Network
LEPC	Local Emergency Planning Committee
LF	Land fill
LLC	Limited Liability Company
LOC	Letter of Completion
LUC	Land Use Control
LUC/O&M	Land Use Control with Operation and Maintenance
LUST	Leaking Underground Storage Tank
MCH	Maternal and Child Health (Branch)
MCL	Maximum Contaminant Level
µg	Micro gram
µg /dL	Micro grams per deciliter
µg/L	Micro gram per Liter
Med	Medium
MMRP	Military Munitions Response Program
M/V	Marine Vessel
N/A	Not Applicable
NCEH	National Center for Environmental Health
NCL	Norwegian Cruise Line
NCTAMS	Naval Computer and Telecommunications Area Master Station
NFA	No Further Action
NFRAP	No Further Response Actions Planned

GLOSSARY OF ABBREVIATIONS AND ACRONYMS

NIEHS	National Institute of Environmental Health Sciences
NIOSH	National Institute for Occupational Safety
NPL	National Priority List
NRC	National Research Center
NRTF	Naval Radio Transmitting Facility
O&M	Operation and Maintenance
OP	Office of Planning
OPA	Oil Pollution Act
ORNL	Oak Ridge National Labs
OU	Operable Unit
PA	Preliminary Assessment
PA/SI	Preliminary Assessment/Site Inspection
PAI	Preliminary Assessment (Initial)
PAI/SII	Preliminary Assessment (Initial)/Site Inspection (Initial)
PCB	Polychlorinated biphenyls
POL	Petroleum Oil and Lubricant
PPA	Prospective Purchaser Agreement
ppb	Part per billion
ppm	Part per million
Pri	Priority
RAA	Remedial Alternatives Analysis
RAM	Remedial Action Memorandum, also, Response Action Memorandum
RCRA	Resource Conservation and Recovery Act
RFA	Request for Application
RI	Remedial Investigation
RIP	Remedy in Place
ROD	Record of Decision
RPM	Remedial Project Manager
SAFE	(Baby) Substance Abuse Free Environment (Program)
SBLRBRA	Small Business Liability Relief and Brownfields Revitalization Act of 2002
SDAR	Site Discovery, Assessment, and Remediation (Section)
SDWB	Safe Drinking Water Branch
SHWB	Solid and Hazardous Waste Branch
SI	Site Inspection
SII	Site Inspection (Initial)

GLOSSARY OF ABBREVIATIONS AND ACRONYMS

SLD	State Laboratories Division
SLH	Session Laws of Hawai`i
SO ₂	Sulfur dioxide
SOSC	State On-Scene Coordinator
SPH	Separate Phase Hydrocarbons
SRP	State Response Program (A federal grant program)
TAMC	Tripler Army Medical Center
TCE	Trichloroethylene
TGM	Technical Guidance Manual
TMF	Technical Managerial Financial
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TVH	Total Volatile Hydrocarbons
UECA	Uniform Environmental Covenants Act
UH	University of Hawai`i
UIC	Underground Injection Control
USACE	United States Army Corps of Engineers
USCG	United States Coast Guard
USDW	Underground Sources of Drinking Water
U. S. EPA	United States Environmental Protection Agency
Unreg UST	Unregulated Underground Storage Tank
UST	Underground Storage Tank
VOG, vog	Volcanic Fog
VRP	Voluntary Response Program
WIC	Women, Infant and Children (Program) (Branch)
WMD	Weapons of Mass Destruction
WTPO	Wastewater Treatment Plant Operator
XRF	x-ray fluorescence (spectrometry)

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EXECUTIVE SUMMARY

REPORT ON THE ENVIRONMENTAL RESPONSE REVOLVING FUND BUDGET AND EXPENDITURES FOR FISCAL YEAR 2007

This report, prepared by the State of Hawai'i Department of Health (DOH), Environmental Health Administration (EHA), Hazard Evaluation and Emergency Response (HEER) Office, complies with Chapters 128D and 128E, Hawai'i Revised Statutes (HRS) requiring the DOH to report to the State Legislature on the Environmental Response Law and Hawai'i Emergency Planning and Community Right to Know Act.

The "environmental response tax" established in the Fuel Tax Law, 243-3.5, HRS supports the Environmental Response Revolving Fund (ERRF) established in Chapter 128D, HRS. This is a state tax of five cents per barrel, or fractional part of a barrel, of petroleum product sold by a distributor to any retail dealer or end user, other than a refiner of petroleum product. Fines and penalties for environmental violations, grants, legislative appropriations, and costs recovered from response actions also support the ERRF.

ERRF funds are used for:

- Removal or remedial actions consistent with Chapter 128D to deal with oil spill and hazardous substances releases.
- Oil spill planning, prevention, preparedness, education, research, training, removal, and remediation.
- Direct support for county used oil-recycling programs.
- To support environmental protection and natural resource protection programs; including but not limited to energy conservation and alternative energy development; and to address concerns related to air quality, global warming, clean water, polluted runoff, solid and hazardous waste, drinking water, and underground storage tanks (UST), including support for the UST program of the department and funding for the acquisition by the State of a soil remediation site and facility.

Environmental Response Revolving Fund Support to Five Environmental Health Administration Programs

Chapter 128D, HRS, Environmental Response Law, requires that the department submit an annual report to the legislature on environmental response revolving fund (ERRF) monies budgeted and expended for implementing remedial action plans.

Five programs in the Environmental Health Administration (EHA) received ERRF funding during FY 2007. They are the Hazardous Evaluation and Emergency Response (HEER) Office, Environmental Management Division (EMD), Clean Water Branch (CWB), Safe Drinking Water Branch (SDWB), and the Solid and Hazardous Waste Branch (SHWB).

Budgets were appropriated to the Hazard Evaluation and Emergency Response (HEER) Office (\$3,210,682), the Environmental Management Division (EMD) (\$54,997), the Clean Water Branch (CWB) (\$272,573), the Safe Drinking Water Branch (SDWB) (\$754,391), and the Solid and Hazardous Waste Branch (SHWB) (\$621,911). The total ERRF appropriation for the five programs was \$4,914,554.

The State expended \$3,240,114 of \$4,914,554 appropriated to fund the five HTH 849 and HTH 840 environmental programs. The individual draw-downs from the ERRF were \$1,681,363 to the Hazard Evaluation and Emergency Response (HEER) Office, \$0 to the Environmental Management Division, \$224,587 to the Clean Water Branch, \$706,919 to the Safe Drinking Water Branch, and \$627,245 to the Solid and Hazardous Waste Branch.

The list of Hawai`i Sites Eligible Under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) is presented in Appendix A. There are currently three sites in Hawai`i listed on EPA's CERCLA National Priority List (NPL) for cleanup, and fifteen sites for possible listing under CERCLA.

The Department of Health Hawai`i State Response Program Priority List of Sites is presented in Appendix A. All Hawai`i sites identified for non-emergency response actions and managed by the HEER Office Site Discovery, Assessment, and Remediation Section during FY 2007 are listed. The list shows 402 sites with potential or known hazardous substance or petroleum contamination. HEER Office Remedial Project Managers (RPMs) completed 26 site related projects, including 22 site assessments, 3 removal actions, and 1 remedial action. Maps showing the locations of key state cleanup sites that achieved significant milestones in FY 2007 are presented in Section 3.

The Department of Health Hawai`i State Response Program Release Notification Log is presented in Appendix B and contains a listing of all hazardous substance and petroleum release notifications received during the fiscal year.

The Hazardous Evaluation and Emergency Response (HEER) Office received a total of 507 release notifications that included 247 oil sheen notifications for the historic Chevron's Pipeline at Waiiau CT10 area, 198 notifications for other the potential or actual releases of Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance(s) or petroleum related substances, and 63 notifications for the release of non-hazardous materials. HEER Office State On Scene Coordinators (SOSCs) performed direct oversight on 82 cases requiring on-site visits or off-scene coordination. Fifteen cases were referred to the HEER Office Site Discovery, Assessment and Remediation (SDAR) Section for follow-on non-emergency cleanup prioritization, 5 sewage spill notifications were referred to CWB, and 30 cases were referred to other agencies.

FY 2007 DOH ENVIRONMENTAL PROGRAM HIGHLIGHTS

Improved Technical Guidance Information

Making clear, accessible, and up to date guidance to the environmental community continues to be a top priority. In FY 2007, the HEER Office released the updated Environmental Action Levels (EALs) Surfer, an automated hazard evaluation tool, and other new environmental guidance documents made widely available through the HEER website. The recently added guidance includes:

- Soil Action Levels and Categories for Bioaccessible Arsenic, August 2006.
- Tier 2 Direct Exposure Spreadsheet Model, November 2006.
- Vapor Unit Conversion Program, April 2007.
- Investigation and Assessment of Pesticides in Former Agricultural Lands and Related Areas, May 2007.
- Long-Term Management of Petroleum-Contaminated Soil and Groundwater, June 2007.
- Chapter 452 of Title 11, Hawai'i Administrative Rules, entitled "Requirements for Decontamination and Cleanup of Methamphetamine Manufacturing Sites, was adopted by the Director, November 2007.

In addition to the already released new guidance documents, the new Release Response Technical Guidance Manual (TGM), complete with an on-line reference manual is slated for first release in Spring 2008. A revised guidance manual for the Underground Storage Tank (UST) Program will follow in Summer 2008.

Improved Site Discovery Process

HEER Office implemented an improved site discovery process to streamline sampling of potentially contaminated areas and rapid evaluation of environmental hazards.

In order to rapidly identify properties that may have significant levels of contamination, the HEER Office has begun a new site visit and sampling program called Sampling of Opportunity, funded by the EPA Preliminary Assessment/Site Inspection (PA/SI) and State Response Program (SRP) grant programs. This new format for site discovery efforts began in Summer 2007 at several former sugar operations along the Hamakua Coast. Sampling was conducted at former pesticides storage, mixing, and operational areas. Former sugar company employees assisted DOH staff in determining the locations and functions of historic pesticide use sites. Results of the first sampling event indicate that elevated levels of pesticides are present at some of the sites and additional investigation may be necessary. The DOH will be working with the current owners and any past operators to address contamination at the sites.

Statewide Strategy for Investigation of Former Agricultural Lands and Research Collaboration with University of Hawai'i at Manoa

The HEER Office anticipates an increase in requests for oversight regarding the investigation of former agricultural lands for residential and commercial redevelopment in FY 2008. Technical guidance has been prepared and made available to the public to ensure that the investigations are adequately thorough and as timely and cost-effective as possible.

The Hazard Evaluation Section will provide technical support and training to staff and the public regarding the investigation and assessment of former agricultural lands. Staff will assist in the revision of the HEER Office Technical Guidance Manual, as well as begin updates on the May 2005 guidance document *Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater*. Staff will present overviews of recent guidance documents and site investigation projects at a minimum of two national conferences.

Improved Investigation and Remediation Strategies

HEER Office investigation and remediation capabilities improved with the application of new scientific methods and an expedited approval process.

- HEER uses multiple lines of evidence to validate shift in regulatory action levels based on bioaccessible arsenic concentrations.
- HEER uses of bioaccessible arsenic concentrations to evaluate potential hazards from arsenic containing soil. University of Hawai'i faculty and staff are researching phytoremediation and geochemical remediation techniques for arsenic. HEER is evaluating x-ray fluorescence (XRF) spectrometry technology for rapid analysis of arsenic samples.
- HEER uses of more cost effective multi-increment sampling approach to more accurately evaluate hazards based on exposure concentrations rather than unnecessarily searching for hot spots.
- HEER initiated development of an expedited process to clean up sites judged to be a low priority for state cleanup action.

Universal Environmental Covenant Act (UECA) Models Developed

HEER Office prepared a model environmental covenant to implement the new Uniform Environmental Covenants Act (UECA) (Chapter 508C, HRS). The law assures that land use controls appear on property title and remain valid and enforceable for as long as they are needed. A letter agreement with DOD governing application of UECA to DOD owned property was also negotiated.

City and County of Honolulu Implements Brownfields Grants

With the assistance of HEER Office, the island of Hawai'i and City and County of Honolulu, are currently working on their brownfields assessment grants. The State has received at least one of every type of brownfields grant EPA has to offer: pilot demonstration grant; site assessment grant, cleanup grant, revolving loan grant job training grant, and state response program development grant.

HEER Office Hosts Brownfield Forums

HEER Office hosted two highly visible, well-received Brownfield Forums to facilitate redevelopment of potentially contaminated properties in 2007.

Funds Available Through the Brownfields Cleanup Revolving Loan Fund (BCRLF)

HEER Office has an ongoing partnership with the Office of Planning, DBEDT, Maui, City and County, and DOH to provide cleanup loans to eligible property owners. DBEDT Office of Planning (OP) is actively seeking eligible and qualified borrowers.

Direct Reporting of Safe Drinking Water Information System (SDWIS/State) Data to EPA

The Safe Drinking Water Branch can now report its inventory and compliance data directly to the U.S. Environmental Protection Agency's Central Data Exchange. The first successful communication of Hawai`i drinking water information occurred in November 2006. Inventory and violation data are now reported on a quarterly basis since then.

SDWIS enhancements will allow full use of the Safe Drinking Water Information System by all SDWB staff through our Environmental Health Administration's local area network. While this software will not immediately fulfill all data and program management needs, it represents the beginning of a commitment to move from a predominantly manual to a more efficient, automated data management system."

Expanding Assistance to Owners and Users of Rain-Water Catchments Systems

As the result of a housing boom and the rising cost of infrastructure, Safe Drinking Water Branch has seen a tremendous increase in the number of homes proposing to utilize rainwater catchment systems on the Big Island. It is projected that the Big Island has the potential of having as many as 60,000 lots served by rainwater catchment systems.

Hawai`i County Mayor Harry Kim has formed a committee to examine the responsibilities of government to persons depending upon rain-water catchment systems, recognizing that it represents an affordable alternative to more conventional drinking water sources such as wells. This committee met twice during FY 2006, did not meet in FY 2007, but whose work should continue in FY 2008. Initial committee assignments have placed emphasis on expanding educational efforts and setting preliminary building standards.

The Safe Drinking Water Branch also assisted and supported the College of Tropical Agriculture and Human Resources effort in sponsoring a conference on catchment systems. The American Rain-Water Catchment System Association held its national conference at the Kilauea Military Camp on the Big Island in August 2007."

Award Given to the Underground Storage Tank Program

The Underground Storage Tank Program managed within the Solid and Hazardous Waste Branch received the FY 2006 Government Performance Reports Act (GPRA) award from the U.S. Environmental Protection Agency for accomplishing the cleanup goal (October 2005 through September 2006). The goal for Federal FY 2006 was to cleanup 50 sites with releases from underground storage tanks.

Sites Improved Under the RCRA Land Revitalization Program

Chemwood Site, Oahu: The Solid and Hazardous Waste Branch is working closely with EPA to finalize a Prospective Purchaser Agreement (PPA) between EPA and a developer interested in purchasing the contaminated Chemwood site. A public hearing was held and a final remedy to cleanup the site is currently being drafted.

Former Wood Treating Operators: Facilities such as Hale Kauai and Hawai`i Wood Preserving are undergoing closure of their contaminated properties to make way for new activities and revitalization of their properties.

Makua Military Reservation, Oahu: Makua Military Reservation continues to be a highly charged site. The army has agreed that upon cessation of training, and the land is transferred back to the state, the army will do a complete closure of the site.

Underground Storage Tank Release Sites: The Underground Storage Tank Program continues to work with the U.S. Environmental Protection Agency and responsible parties in revitalizing sites with releases from underground storage tanks.

1 128D, HRS REPORT ON ENVIRONMENTAL RESPONSE REVOLVING FUND HTH 849 AND HTH 840 BUDGETS AND EXPENDITURES

Chapter 128D, HRS, Environmental Response Law, requires that the department submit an annual report to the legislature on environmental response revolving fund (ERRF) monies budgeted and expended for implementing remedial action plans.

Five programs in the Environmental Health Administration (EHA) received funding from the ERRF during FY 2007. They are the Hazardous Evaluation and Emergency Response (HEER) Office, Environmental Management Division (EMD), Clean Water Branch (CWB), Safe Drinking Water Branch (SDWB), and the Solid and Hazardous Waste Branch (SHWB).

The Environmental Response Revolving Fund (ERRF), established in Chapter 128D, HRS, is supported by a tax of five cents per barrel on petroleum sold in the State of Hawai'i, fines and penalties for environmental violations, grants, legislative appropriations, and costs recovered from response actions. The fund supported by the oil tax is used for the following:

- Conducting removal or remedial actions consistent with Chapter 128D.
- Oil spill planning, prevention, preparedness, education, research, training, removal, and remediation.
- Direct support for county used oil-recycling programs.
- To support environmental protection and natural resource protection programs; including but not limited to energy conservation and alternative energy development; and to address concerns related to air quality, global warming, clean water, polluted runoff, solid and hazardous waste, drinking water, and underground storage tanks (UST), including support for the UST program of the department and funding for the acquisition by the State of a soil remediation site and facility.

1.1 Report on De Minimis Settlements

Chapter 128D, HRS, Environmental Response Law, requires that the department report annually on any de minimis settlements. During FY 2007 there were no de minimis settlements.

1.2 Environmental Response Revolving Fund Revenue

Table 1 presents the actual revenue collected as of June 30, 2007.

TABLE 1 ENVIRONMENTAL RESPONSE REVOLVING FUND REVENUE

Revenue Source FY 2007	HTH 840 S342H	HTH 849 S339H	Total
Environmental Response Tax	1,741,311		1,741,311
Investment Pool Account	259,420	9,984	269,404
Special Public Health Project	1,400		1,400
Fees, Filing of Tier II Chemical Inventory	73,200		73,200
Fees, Voluntary Response Account	25,050		25,050
Sale of Services	-		-
Refund/Reimbursement	24,882	335	25,217
Violations of Air Pollution	155,100		155,100
Violations of Hazardous Waste	89,447		89,447
Violations of Water Pollution	1,356,055		1,356,055
Violations of Solid Waste	2,000		2,000
Restitutions	769		769
Violations of Community Noise Control	38,525		38,525
Transfer from Special Funds Revenues	66,464		66,464
Total S339H (HTH 840) and S342H (HTH849)	3,833,623	10,319	3,843,942

1.3 Environmental Health Administration Budget and Expenditure Summary for Five Environmental Programs

Budgets were appropriated for the Hazard Evaluation and Emergency Response (HEER) Office (\$3,210,682), the Environmental Management Division (EMD) (\$54,997), the Clean Water Branch (CWB) (\$272,573), the Safe Drinking Water Branch (SDWB) (\$754,391), and the Office the Solid and Hazardous Waste Branch (SHWB) (\$621,911). The total ERRF appropriation for the five programs was \$4,914,554.

The State expended \$3,240,114 of \$4,914,554 appropriated to fund five HTH 849 and HTH 840 environmental programs. The individual draw-downs from the ERRF were \$1,681,363 to the Hazard Evaluation and Emergency Response (HEER) Office, \$0 to the Environmental Management Division, \$224,587 to the Clean Water Branch, \$706,919 to the Safe Drinking Water Branch, and \$627,245 to the Solid and Hazardous Waste Branch.

Table 2 presents a summary of the amounts budgeted, allocated, and expended for each of the five EHA programs. The amounts presented for allocated and appropriated monies may differ due to normal accounting and union adjustments to the budget.

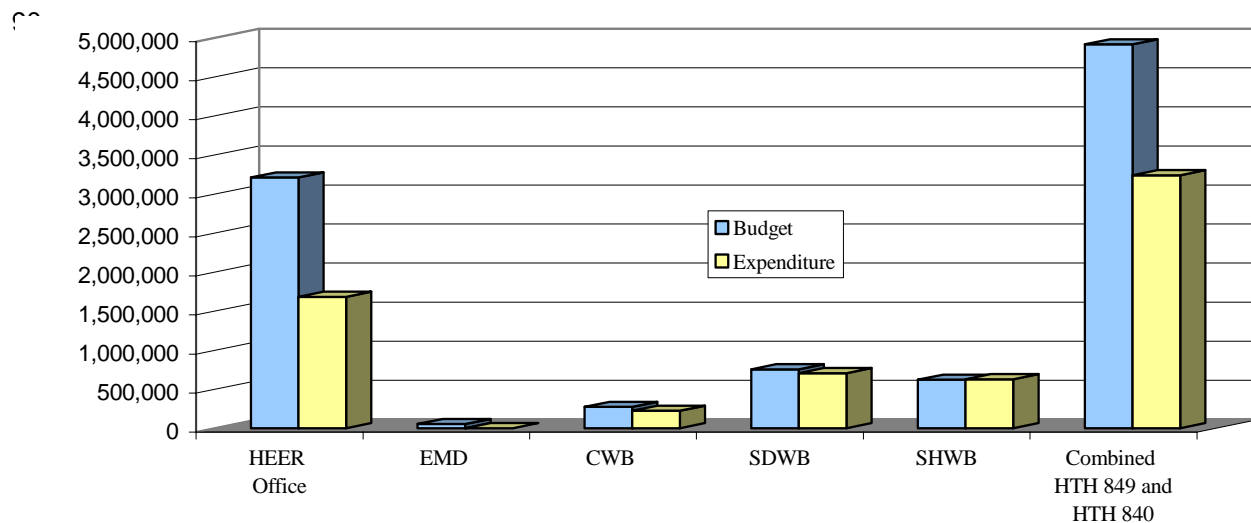
TABLE 2 ERRF BUDGET AND EXPENDITURE FOR FIVE EHA PROGRAMS

	Budget FY 2007	Allocated FY 2007	Expenditure FY 2007 *
HEER-HTH 849-FD			
A Funds	1,060,269	1,103,739	1,080,947
B Funds	2,150,413	2,090,413	589,060
C Funds	-	60,000	11,356
HEER Subtotal	3,210,682	3,254,152	1,681,363
EMD-HTH 840-FE			
A Funds	54,997	54,997	-
B Funds	-	-	-
C Funds	-	-	-
EMD Subtotal	54,997	54,997	-
CWB-HTH 840-FG			
A Funds	107,573	107,573	128,955
B Funds	160,000	160,000	95,632
C Funds	5,000	5,000	-
CWB Subtotal	272,573	272,573	224,587
SDWB-HTH 840-FH			
A Funds	599,398	632,641	644,344
B Funds	154,993	154,993	62,575
C Funds	-	-	-
SDWB Subtotal	754,391	787,634	706,919
SHWB-HTH 840-FJ			
A Funds	606,911	643,654	627,245
B Funds	15,000	15,000	-
C Funds	-	-	-
SHWB Subtotal	621,911	658,654	627,245
Total	4,914,554	5,028,010	3,240,114 *

* Not including encumbrance

A graphic summary of the budget and expenditures for the five Environmental Health Administration (EHA) programs receiving funding from the ERRF is presented below.

CHART OF ERRF HTH 849 AND HTH 840 BUDGET AND EXPENDITURE SUMMARY



1.4 Hazard Evaluation and Emergency Response Office Budget and Expenditure Summary

TABLE 3 HEER OFFICE ERRF BUDGET AND EXPENDITURE

	Budget FY 2007	Allocated FY 2007	Expenditure FY 2007
A Funds			
1 Toxicologist I, SR 26			
1 Toxicologist I, SR 26 (T)			
1 Ecological Risk Assessor, SR 26 (T)			
1 Planner V, SR 24			
1 Epidemiological Specialist IV, SR 22			
2 Env. Health Specialist V, SR 24			
7 Env. Health Specialist IV, SR 22			
2 Env. Health Specialist IV, SR 22 (T)			
1 Secretary II, SR 14			
1 Clerk Typist II, SR 08			
18 A Funds Subtotal	1,060,269	1,103,739	1,080,947
B Funds			
Response 322			
Operations B 323			
B Funds Subtotal	2,150,413	2,090,413	589,060
C Funds			
	-	60,000	11,356
Total HEER ERRF Budget and Expenditure	3,210,682	3,254,152	1,681,363

In general, ERRF, General fund, and federal grant appropriations to the HEER Office provide for state leadership in addressing all aspects of releases of hazardous substances and/or petroleum into the environment. Funding is used for four purposes: operations; response; personnel, and equipment purchases. The work includes preventing, planning for, responding to hazardous substance releases or risks of releases, and protecting the natural resources of the State of Hawai'i by addressing contaminated sites with the highest risk to human health and the environment first, preventing contamination rather than cleaning up after the fact, and basing decisions on sound scientific principles and common sense.

HEER Office functions are defined in Chapter 128D, HRS, Chapter 128E, HRS, and the following federal laws; Comprehensive Environmental Response Compensation, and Liability Act (CERCLA), Emergency Planning and Community Right-to-Know Act (EPCRA), Clean Air Act (CAA), and Oil Pollution Act (OPA) of 1990. HEER Office is comprised of three operating sections; 1) Emergency Preparedness and Response; 2) Hazard Evaluation, and 3) Site Discovery, Assessment and Remediation.

Emergency Preparedness and Response

The HEER Office State On-Scene Coordinators (SOSCs) performs Emergency Preparedness and Response (EP&R) activities that supports planning, preparing, and responding to hazardous substance releases which may cause an immediate and substantial threat to human health or the environment.

SOSCs coordinate efforts with County HAZMAT units, and other State and Federal agencies and train with County Fire HAZMAT teams, the 93rd Weapons of Mass Destruction (WMD) Civil Support Team (CST) of the Hawai`i National Guard, and the State Department of Defense. The SOSCs also work closely with the State DOH Laboratory Division and University of Hawai`i Laboratory to strengthen our capability to deal with acts of terrorism.

EP&R State On-Scene Coordinators (SOSCs) bring about expedient and effective response to protect human health and the environment and have the authority to act on behalf of the State for the Governor as mandated in Chapter 128D (Environmental Response Law). The SOSCs are trained to enter hazardous atmospheres in self-containing breathing apparatus and various types of personal protective equipment. SOSCs are assigned to take calls after hours, on weekends, and holidays, and are on 24-hour call as back-up personnel to first responder County HAZMAT teams.

Hazard Evaluation of Ecological and Human Health Risk

HEER Office provides ecological and human health risk assessment, conducts toxicological assessments of chemical threats to human health, establishes appropriate cleanup levels for chemical contamination, and assists the public with information concerning the health effects of chemicals.

In FY 2007, staff provided risk assessment support and responded to a diversity of inquiries concerning potential health hazards. These inquiries included questions regarding heavy metals (e.g., mercury, lead, arsenic), pesticides, indoor and outdoor air pollutants (e.g., mildew, cleaners, paints), and other illnesses potentially related to the environment.

Site Discovery, Assessment and Cleanup Programs

Potentially contaminated and known contaminated Hawai`i State Response Program listed sites undergoing assessment, removal, or remedial action are managed within the HEER Office under one of four programs. They are the (1) Hawai`i Response Program, (2) Hawai`i Brownfields Revitalization Program, (3) Hawai`i Voluntary Response Program, and (4) EPA CERCLA Preliminary Assessment/Site Inspection (PA/SI) Program. Over time and depending upon eligibility, funding, and level of responsible party participation, a site may be managed within HEER Office under one or more of these programs starting with the site assessment phase and if required by the State, through to cleanup completion.

The FY 2007 General Fund and federally funded budgets for HEER Office are summarized below.

TABLE 4 HEER OFFICE GENERAL FUND BUDGET AND EXPENDITURE

<u>HEER Office General Funding</u>	<u>Budget FY 2007</u>	<u>Expenditure FY 2007</u>
A Funds		
1 Environmental Program Manager		
1 Epidemiological Sepcialist IV, SR 22		
4 Env. Health Specialist IV, SR 22		
<u>1 Clerk Typist, SR 08</u>		
7		
A Fund Subtotal	348,498	384,606
B Funds		
	<u>49,418</u>	<u>5,902</u>
Total	397,916	390,508

The federal funding data presented below has been adjusted to coincide with the State fiscal year as reflected in the Annual Operating Budget and the Financial Accounting Management Information System (FAMIS) Expenditure Reports. The State FY 2007 extends from July 1, 2006 to June 30, 2007, while the Federal FY 2007 extends from October 1, 2006 to September 30, 2007. The EPA State Response Program and EPA Superfund federal grant budgets are expended to the full amount appropriated during any federal fiscal year. The DOD DSMOA budget is developed for four full time equivalents (FTE) with expenditures billed for work performed with available staff.

TABLE 5 HEER OFFICE FEDERAL GRANT BUDGET AND EXPENDITURE

<u>HEER Office Federal Grant Funding</u>	<u>Budget FY 2007</u>	<u>Expenditure FY 2007</u>
EPA State Response Program	1,605,750	904,805
EPA Superfund PA/SI Cooperative Agreement	180,000	182,323
DOD DSMOA Program	<u>456,661</u>	<u>270,633</u>
Total HEER Office Federal Funding	2,242,411	1,357,761

EPA State Response Program Grant

The HEER Office continues to receive funding from the EPA State Response Program (SRP) grant under Section 128(a) of the Small Business Liability Relief and Brownfields Revitalization Act of 2002 (SBLRBRA). This SRP grant provides crucial funding for capacity building and program development activities. In 2007, SRP funding allowed DOH to develop new investigation and cleanup policies, implement statewide investigation of arsenic and other agricultural contaminants, and provide outreach to other agencies and the regulated community through partnership trainings, forums and other activities associated with the assessment, cleanup, and redevelopment of brownfields sites and with actual or perceived contamination.

EPA PA/SI Grant

The EPA Preliminary Assessment/Site Investigation Partnership Agreement between the State and EPA Region 9 funds state site discovery efforts combined with federal CERCLA (Superfund) evaluation of sites. Sites that are evaluated through the PA/SI system are rated to determine their eligibility for the National Priority List.

DOD/State Memorandum of Agreement Grant

HEER Office participates in two federal cleanup programs. The office performs oversight services to the military on sites located on federal property and managed and funded under the Department of Defense/State Memorandum of Agreement (DSMOA) Program. HEER Office also manages assessment and cleanup activities for sites delegated to the Formerly Used Defense Sites (FUDS) Program that is funded by the DSMOA.

The DSMOA program was established by the federal government to cover reimbursement of costs incurred by the state in providing oversight services to the Department of Defense (DOD) installations conducting environmental cleanup activities funded under the Defense Environmental Restoration Program (DERP). DSMOA funds are given to the State based on the State's request for advanced or reimbursement payment. If there is need for additional funding the Cooperative Agreement allows for the renegotiation for increased funding.

1.5 HEER Office Funding Made Available to Other State Programs

FY 2007 ERRF funding appropriated to HEER Office was made available to the following special state programs.

- Continuation in use of funding for the Hawai'i Energy Policy Forum in accordance with the Memorandum of Understanding between the Department of Health (DOH) and the Social Sciences Public Policy Center, University of Hawai'i (\$100,000).
- The County's Oil Recycling Program (\$200,000) managed and overseen by the Solid and Hazardous Waste Branch (SHWB).
- Environmental Crimes Unit (ECU) (\$169,123) within the Department of the Attorney General.
- Shared HEER Office and SHWB legal services (\$136,000) to State Department of Attorney General.

1.6 Environmental Management Division Budget and Expenditure Summary

TABLE 6 EMD ERRF BUDGET AND EXPENDITURE

	<u>Budget FY 2007</u>	<u>Allocated FY 2007</u>	<u>Expenditure FY 2007</u>
EMD-HTH 840-FE			
A Funds			
1 Information Technology Specialist V, SR 24	<u>54,997</u>	<u>54,997</u>	<u>-</u>
Total EMD ERRF Budget and Expenditure	54,997	54,997	-

The ERRF funds the Information Technology Specialist computer network manager position for the Environmental Management Division (EMD). The network manager supports and maintains the Local Area Network/Wide Area Network (LAN/WAN) connections for the division. Responsibilities of this position include providing a reliable daily back up, ensuring users have access to their data files, and providing email and internet connectivity. The network manager is also working to improve and upgrade network servers and connections. These projects include the Environmental Health Administration's One Stop project, the Clean Water Branch (CWB) Water Quality web application project, and the Clean Air Branch (CAB) database project.

1.7 Clean Water Branch Budget and Expenditure Summary

TABLE 7 CWB ERRF BUDGET AND EXPENDITURE

	<u>Budget FY 2007</u>	<u>Allocated FY 2007</u>	<u>Expenditure FY 2007</u>
CWB-HTH 840-FG			
A Funds			
1 Information Technology Specialist IV, SR 22			
1 Env. Health Specialist IV, SR 22			
	<u>107,573</u>	<u>107,573</u>	<u>128,955</u>
B Funds	160,000	160,000	95,632
C Funds	<u>5,000</u>	<u>5,000</u>	<u>-</u>
Total CWB ERRF Budget and Expenditure	<u>272,573</u>	<u>272,573</u>	<u>224,587</u>

The ERRF funds an Environmental Health Specialist (EHS) IV position and an Information Technology Specialist (ITS) IV position for the CWB. The EHS position tasking insures monitoring data submitted by CWB permitted facilities meets acceptable standards for sampling, transportation, and reporting as required by DOH policies and under EPA rules. The ITS performs tasks to integrate various federally required data systems, and provide technical support to the CWB staff in the areas of data recording and reporting.

The Legislature continued funding of separate \$150,000 Hawai'i Association of Conservation Districts (HACD) contract funds to support three Conservation Specialists positions on the neighbor islands and Oahu. These positions assist the CWB's Polluted Runoff Control program by providing technical assistance and oversight in the control of non-point source pollution resulting from activities in areas such as agriculture, urban, commercial, boating, and dealing with the general public. FY 2007 funds have been used to extend the HACD contract for the Conservation Specialists on Oahu, Kauai and Waimea.

1.8 Safe Drinking Water Branch Budget and Expenditure Summary

TABLE 8 SDWB ERRF BUDGET AND EXPENDITURE

	<u>Budget FY 2007</u>	<u>Allocated FY 2007</u>	<u>Expenditure FY 2007</u>
SDWB-HTH 840-FH			
A Funds			
3 Env. Engineer IV, SR 24			
1 Env. Health Specialist III, SR 20			
2 Clerk Typist II, SR 08			
1 Underground Injection Control Geologist II, SR 28			
2 Underground Injection Control Geologist I, SR 24			
1 Underground Injection Control Clerk, SR 08			
1 Information Technology Specialist IV, SR 22			
<u>11</u>	<u>599,398</u>	<u>632,641</u>	<u>644,344</u>
B Funds	154,993	154,993	62,575
C Funds	<u>-</u>	<u>-</u>	<u>-</u>
Total SDWB ERRF Budget and Expenditure	754,391	787,634	706,919

The ERRF continued to support Safe Drinking Water Branch personnel and activities related to the protection of public health and drinking water quality through many activities during FY 2007. These funds support activities that have both direct and indirect drinking water protection benefits.

1.9 Solid and Hazardous Waste Branch Budget and Expenditure Summary

TABLE 9 SHWB ERRF BUDGET AND EXPENDITURE

	<u>Budget FY 2007</u>	<u>Allocated FY 2007</u>	<u>Expenditure FY 2007</u>
SHWB-HTH 840-FJ			
A Funds			
1 Env. Engineer IV, SR 24 (SW)			
2 Env. Health Specialist IV, SR 22 (HW)			
1 Geologist I, SR 24 (LUST)			
1 Env. Health Specialist IV, SR 22 (LUST)			
1 Env. Health Specialist III, SR 20 (LUST)			
1 Env. Health Specialist IV, SR 22 (UST)			
2 Env. Health Specialist III, SR 20 (UST)			
1 Clerk Typist II, SR 08 (UST)			
<u>10</u>	<u>606,911</u>	<u>643,654</u>	<u>627,245</u>
B Funds	15,000	15,000	-
C Funds	<u>-</u>	<u>-</u>	<u>-</u>
Total SHWB ERRF Budget and Expenditure	621,911	658,654	627,245

SHWB program activities supported by the ERRF include the following:

- Used oil management and recycling
- Special waste management
- Management of Leaking Underground Storage Tank (LUST) sites
- Inspection of Underground Storage Tank (UST) facilities
- Oversight of the County's Oil Recycling Program

2 128E, HRS REPORT ON HAWAII EMERGENCY PLANNING AND COMMUNITY RIGHT-TO KNOW ACT (HEPCRA) TIER II FILING FEE REPORT

This report defined in Chapter 128E, HRS, Hawai`i Emergency Planning and Community Right-To-Know Act (HEPCRA) presents an accounting on the amount of Tier II filing fees collected and deposited into the ERRF. Table 10 presents the amount of Tier II filing fees collected and deposited, and distributed during the preceding fiscal year, the current fiscal year, and projected to be collected during the upcoming fiscal year.

HEER Office staff provides administrative support to the Hawai`i State Emergency Response Commission (HSERC), and technical assistance to the Local Emergency Planning Committee's (LEPCs) on Hawai`i, Oahu, Kauai, and Maui for coordination of statewide planning activities to prepare for and respond to chemical and oil spills in the environment.

The staff assesses Tier II reports submitted annually and collects the fees that are then deposited into the ERRF. HEPCRA requires that an owner or operator of a facility that stores, uses, or manufactures any hazardous substance, or extremely hazardous substance, above defined thresholds, is required to file a notification of such "Tier II" activity and to pay a filing fee.

Tier II filing fees have been, or are being distributed as noted below to the Local Emergency Planning Committees, after deductions for the HSERC operating expenses.

The amount of fees projected to be collected for fiscal year 2008 is likely to increase. This projection is based on increased HEER Office effort for identifying potentially eligible facilities. Approximately 2,600 survey letters were sent to potential Tier II facilities, and LEPCs and HEER staff increased the number of outreach visits on Hawai`i, Oahu, Kauai, and Maui.

The following table presents the distribution to the nearest dollar.

TABLE 10 HEPCRA TIER II FILING FEES

<u>Tier II Filing Fees</u>	<u>Collected</u>	<u>Distributed</u>
FY 2005	67,200	63,915
FY 2006	61,421	47,141
FY 2007	73,200	68,330
Projected to be collected in FY 2008	74,200	
<u>Funds Distributed to LEPCs for FY 2008</u>		
Honolulu		16,190
Hawai`i		10,602
Maui		7,469
Kauai		6,044
	Total	40,305

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3 REPORT ON KEY ENVIRONMENTAL PROGRAM ACTIVITIES

Key environmental program activities for the Hazard Evaluation and Emergency Response Office, Environmental Management Division, Clean Water Branch, Safe Drinking Water Branch, and Solid and Hazardous Waste Branch are presented in this section.

3.1 Hazardous Evaluation and Emergency Response Office Hawai`i State Response Program Improved

The ERRF funds a portion of the Hawaii State Response Program (State Response Program) managed within the Hazard Evaluation and Emergency Response Office. In general, ERRF, General fund, and federal grant appropriations to the HEER Office provide for state leadership in addressing emergency and non-emergency responses to releases of hazardous substances and/or petroleum into the environment. Key activities of the program focus on preventing, planning for, responding to hazardous substance releases or risks of releases, and protecting the natural resources of the State of Hawai`i by addressing contaminated sites with the highest risk to human health and the environment first, preventing contamination rather than cleaning up after the fact, and basing decisions on sound scientific principles and common sense. Eighteen positions within the HEER Office are funded by the ERRF.

HEER Office manages the State Response Program with funds received from the ERRF, General fund, and federal grants. These funds are portioned to office personnel providing administrative, scientific technical, and supervisory support to the three HEER Office operating sections. The three sections are the 1) Emergency Preparedness and Response Section, 2) Hazard Evaluation Section focused primarily on ecological and human health risk assessment, and 3) Site Discovery, Assessment and Remediation Section. In addition to personnel costs expended from the ERRF, General fund, and federal funding, additional costs applied to emergency response actions are expended from the ERRF, and those applied to non-emergency response actions and enhancements to the State Response Program are expended from federal grant monies.

The following sections report on the key activities of the State Response Program. State and federal funds were expended for these activities.

3.1.1 Key Emergency Preparedness and Response Activity

3.1.1.1 F/V Princess K Grounding

On August 15, 2006, F/V Princess K ran aground at the entrance to Kewalo Basin at Point Panic, Honolulu. The vessel was removed later that day; there was no release of oil.

3.1.1.2 Kai Anela Sinking

On September 29, 2006 the M/V Kai Anela sank at its mooring on Molokini Island. Molokini Island is a Marine Sanctuary. Unified Command was established with the United States Coast Guard, State of Hawai`i, and Maui Dive Company. After several attempts the vessel was removed safely with minimal damage to the hull and there was no release of fuel into the sanctuary.

3.1.1.3 Waimea Canyon School Stink Weed Odor

On November 14, 2006, an unusual odor at Waimea Canyon Elementary and Middle School, Kauai alarmed faculty, students, and parents. The Pesticides Branch of Department of Agriculture collected samples from the downwind area of the school. The sample data analyzed by a HEER Office toxicologist indicated there was no evidence that pesticides had drifted to the school. The odor was traced to a weed growing near the school. A letter of response to the complainants was sent under the Governor's signature.

3.1.1.4 Coca Cola Enterprise Ammonia Release

On November 28, 2006, an ammonia release occurred at the Coca Cola plant in Mapunapuna, Oahu. Since previous releases affecting nearby businesses had occurred, Coca Cola installed vent sensors in June 2007.

3.1.1.5 M/V Tong Cheng Request for Place of Refuge

In January 2007 the M/V Tong Cheng, a Chinese bulk vessel, was taking on water and requested to come to Hawai'i for a Place of Refuge. The 485-foot vessel contained 120,000 gallons of heavy fuel. Unified Command was established with the United States Coast Guard, State of Hawai'i, and the Responsible Party. The vessel safely entered Hawai'i waters and was brought to Barbers Point Harbor for offloading. There was no pollution and 26 crewmembers were saved. The vessel was repaired and departed Hawai'i for China in March 2007.

3.1.1.6 M/V Kamome Hard Aground

On February 2, 2007 the F/V Kamome sank at its mooring in Hawai'i Kai. The owner of the vessel relinquished ownership to the Department of Land and Natural Resources (DLNR). In coordination with the DLNR, Cates International was contracted for the removal of the vessel. On February 14, 2007 the vessel was removed safely and relocated to Sand Island for demolition.

3.1.1.7 Lead Fishing Weights Production, Kapaa, Kauai

On April 16, 2007, HEER was notified of a residential site in Kapaa, Kauai where the owner was manufacturing lead fishing weights. Lead ingots were smelted in a workshop in the backyard of the residence. Soil samples were collected and analyzed. Lead was detected in the samples at up to 20,000 parts per million (ppm). Lead in soils at 400 ppm is used as a guidance value that would be protective of public health. A removal process is on going.

3.1.1.8 Pearl Harbor Fuel Tank Leak

On April 26, 2007 Navy Pearl Harbor advised that data collected for fuel tank #48 at Pearl Harbor had indicated a decline in fuel level. Exterior inspection of the tank did not show a visible leak, nor was there a fuel odor or visible release to the harbor. Approximately 890,000 gallons of fuel was transferred from the #48 tank to other tanks. Tank #48 was inspected and a small hole was found in the tank bottom. It was determined that a release of 359,000 gallons of diesel fuel occurred below ground surface (bgs). The tank #48 release occurred at an Installation Restoration (IR) location managing a previous release of 5-million gallons of heavy oil. No oil was released to Pearl Harbor.

3.1.1.9 Ocean Fresh Seafood Fire Compromises Compressed Gas Cylinders

On June 1, 2007, fifteen compressed gas cylinders were compromised at Ocean Fresh Seafood in Wai'au, Oahu as a result of a fire. HEER Office received a request from the Honolulu Fire Department to assist them in the safe disposal of the cylinders containing carbon monoxide. Unified Command was established with the State of Hawai'i, City and County of Honolulu, and a Responsible Party. As a safety precaution, nearby residents and businesses were evacuated and some roads were closed while the removal of the cylinders was conducted on June 4 and 5, 2007.

3.1.2 Key Hazard Evaluation of Ecological and Human Health Risk Assessment Activity

3.1.2.1 Acidic Haze of Volcanic Fog (VOG) Emissions Study

Kilauea volcano on the Big Island of Hawai'i has been erupting continuously since 1986, releasing 300 to 6,000 metric tons of sulfur dioxide (SO₂) each day, resulting in areas with different types of vog exposure. Air monitoring in five communities confirmed highest volcanic air pollution downwind of the volcano, and least in upwind communities. On an average day, Kilauea volcano releases 1,000 to 2,000 metric tons of SO₂ to the atmosphere (Hawai'i chapter of the American Lung Association). This is more than twice as much as the highest EPA-ranked stationary source in the nation. Studies have reported that urban and industrial air pollution has been associated with heart disease and cardiovascular changes. Studies have also reported that air pollution may be associated with changes in heart rate variability, and may be an important mechanism linking pollution and heart disease. However, the effect of volcanic air pollution (vog) on human health is less well studied and data on natural sources of air pollution from volcanic emissions are scarce.

Congress appropriates monies to the U.S. Centers for Disease Control and Prevention's (CDC's) National Center for Environmental Health (NCEH) to provide funds to the Hawai'i Department of Health so that health effects experienced by Hawai'i residents that may be associated with potentially toxic volcanic emissions may be studied.

3.1.2.2 Volcanic Emissions and Airway Function, Inflammation, Heart Rhythm (AIR) Study

Congress recently appropriated additional funding in the amount of \$77,703 to the CDC's National Center for Environmental Health (NCEH) to provide funds to the Hawai'i DOH to study the health effects of vog experienced by Hawai'i residents that may be associated with potentially toxic volcanic emissions. The HEER Office submitted an official application to the U.S. Centers for Disease Control and Prevention (CDC) requesting this second 12-month extension. The original AIR study began in September 1, 2005. This additional funding will bring in a total of \$229,347 for the AIR study. In August 2007 the CDC authorized the second 12-month cost-extension for this study extending the completion date from August 31, 2006 through August 31, 2008.

This study will continue to be led by Dr. Elizabeth Tam, a pulmonologist and professor of medicine at the University of Hawai`i (UH) John A. Burns School of Medicine (JABSOM). This cost extension will allow our investigators to repeat studies of subjects in Volcano Village during high vog episodes (they missed several opportunities during the initial delay in funding), and complete the study of control subjects in the vog-free community of Kohala. In addition, the second cost-extension will give the investigators time to determine whether the data gathered show statistically significant differences in health outcomes between the different vog exposure areas. The investigators are also proposing to continue strengthening community relationship.

The overall goal of this research is to engage the community in research that explores the interactions between environmental factors and public health. The focus of this study is the relative effects of volcanic air pollution on cardiopulmonary health. Scientists and community researchers will continue to work together to explore the hypothesis that adults exposed to high levels of volcanic emissions develop airway obstruction, inflammation, or autonomic dysfunction.

Congress established a standard line item in the budget to the CDC's NCEH for a grant program to provide funds to the Hawai`i DOH for an assessment of the health effects experienced by Hawai`i residents who may be associated with potentially toxic volcanic emissions from an active volcano. The CDC will be soliciting another Request For Application (RFA) in FY 2008 for a new vog project that will continue over a 5-year period at which time our subcontractor Dr. Elizabeth Tam will begin her children's study.

On behalf of the University of Hawai`i (UH) John A. Burns School of Medicine (JABSOM) and the Hawai`i Department of Health (DOH), Dr. Elizabeth Tam presented a poster entitled, "Heart Rate Variability in Subjects Exposed to Volcanic Air Pollution" at the American Thoracic Society's (ATS) 2007 International Conference in San Francisco, California on May 18 to 23.

3.1.2.3 Environmentally Related Illness and Injury Reporting and Surveillance (Pesticides And Heavy Metals)

The DOH Hazard Evaluation section maintains a database that contains lab results of pesticides (such as organophosphates and carbamates) as well as lab results of heavy metals (such as lead, mercury, arsenic, and cadmium). As stated in the Hawai`i Administrative Rules Title II, Department of Health, Chapter 5 on Environmentally-Related Illness and Injury Reporting Law, the DOH has made the abnormal lab results for these pesticides and elevated lab results for these heavy metals reportable conditions. That is, physicians and laboratory directors are required to report cases or suspected cases of pesticide or heavy metal poisoning to the Hawai`i Department of Health

An analysis of the Pesticide and Heavy Metal database from year 2002 to 2006 was done to determine if all of the submitting and testing labs were still continuing to send the lab results to the HEER Office. In addition, the data was analyzed to determine whether there was a significant drop in the numbers being reported. The data analysis was further broken down to the specific types of test (i.e. lead blood, lead serum, lead urine, etc) performed by the submitting and testing labs.

The analysis showed that the total number of reported lab results in general is decreasing but the same trend was not seen with the elevated levels for the heavy metals or the decreased levels with the cholinesterase and pseudo-cholinesterase levels. It is not obvious why the difference in trends is so. Analysis showed the difference is not simply due to labs not reporting levels not in the reference range (i.e. elevated levels for the heavy metals and depressed levels for the cholinesterase and pseudo-cholinesterase), because significant numbers of lab results within the reference values are reported. The HEER Office may not be getting all of the lab results in hard copy. This may be further explored when the HEER Office receives all lab results electronically.

A shift from entering data manually into a Microsoft Access database to making use of electronic records is under development. The purpose of this move is to reduce the amount of manual labor involved in entering the data records.

The HEER Office sent a letter to the Department of Health (DOH), Disease Outbreak Control Division (DOCD), Disease Investigation Branch, requesting that the heavy metal analytes as well as the cholinesterase and pseudo-cholinesterase levels be added to the Electronic Communicable Disease Reporting System (ECDRS) data feed from laboratories. The HEER Office also sent letters to the laboratories in Hawai'i asking for electronic files of historical test results to close the data gap. The HEER Office Hazard Evaluation staff will be doing an examination, comparison, and analysis of the electronic versus the hard copy CLH data results received during the 2006 calendar year.

Diagnostic Laboratory Services has 5-years of urine and blood lead data available and will have information for analytes with multiple order codes soon. Kaiser, Tripler and Kuakini are working on supplying their historical data.

The Hazard Evaluation staff received an electronic sampling of data from the Disease Outbreak Control Division (DOCD) Disease Investigation Branch for a one-week audit period ("Audit Date Time" of June 25, 2007 to July 2, 2007). This covered an "Observation Date Time" of June 4, 2007 to July 2, 2007. A total of 252 data results were received. The data included results from the Clinical Laboratories of Hawai'i (CLH), Diagnostic Laboratory Services (DLS), Kaiser Hospital (KSR), and the Tripler Army Medical Center (TAMC). The HEER Office database manager will be working together with DOCD to make sure the data are received as specified.

In order to further this project, surveillance forms are being developed so follow up may be performed to investigate the reported cases. Queries will be performed on data to identify cases that require follow up. These follow up surveillance forms will be used to gather information from physicians for patients that show abnormally high heavy metal levels or abnormally low cholinesterase or pseudo-cholinesterase levels. The surveillance form may help to evaluate the patient's exposure situation and determine the patient's diagnosis. The surveillance data can also be used to identify new emerging pesticide and heavy metal problems, estimate the magnitude of these poisonings, and evaluate intervention and prevention efforts.

It is hoped that the pesticide and heavy metal surveillance will: (1) reduce the incidence of acute pesticide-related illness/injury as well as heavy metal poisoning, (2) identify clusters/outbreaks of pesticide and heavy metal illness/injury, (3) identify groups at risk for pesticide and heavy metal related illness, (4) identify new problems and research needs, and (5) target regulatory, enforcement, consultative, or educational interventions to prevent or control pesticide and heavy metal illness/injury.

3.1.2.4 Adult Blood Lead Epidemiology and Surveillance Reporting

The HEER Office has accepted responsibility for the Adult Blood Lead Epidemiology and Surveillance (ABLES) contract with the CDC's NIOSH that was formerly managed by the Maternal and Child Health (MCH) Branch up until December 2006. The HEER Office will be reporting laboratory confirmed cases of elevated blood lead results in Hawai'i residents aged 16 and older to CDC. The CDC's annual contract period for the ABLES reporting will run from September 16, 2007 through September 15, 2008.

The ABLES program is a state-based surveillance program of laboratory-reported adult blood lead levels. The program objective is to build state capacity to initiate, expand, or improve adult blood lead surveillance programs which can accurately measure trends in adult blood lead levels and which can effectively intervene to prevent lead over-exposures. The ABLES public health goal in Healthy People 2010 is to reduce the incidence of adults with elevated blood lead level to zero.

An elevated BLL in adults is considered to be 25 micrograms of lead per deciliter of blood (25 µg/dL) or greater. The DOH hopes to reduce the incidence of elevated blood lead levels by identifying the circumstances that generate those elevated levels and preventing those circumstances from occurring. The prevention effort includes intervention strategies and educating those people likely to be exposed to lead.

3.1.2.5 Public Education on Fish and Mercury

The HEER Office handles inquiries on fish and mercury with staff responding to calls from the public as well as obstetrics/gynecology physician's offices.

There are many requests for the brochure entitled, "A Local Guide to Eating Fish Safely For Pregnant Women, Nursing Mothers, and Young Children." The HEER Office continues to distribute these brochures to the public, obstetrics/gynecology physicians, programs such as Baby Substance Abuse Free Environment (SAFE) program and the Kokua Kalihi Valley program, and HMSA for distribution to their members. The brochure is available on the Department of Health's website, at: <http://www.hawaii.gov/health/family-child-health/wic/pdf/fishsafety.pdf>.

3.1.2.6 Kaimuki Neighborhood Board Question, "Has there been any fish mercury poisoning in Hawai'i?"

Assessing mercury toxicity in Hawai'i involves consideration of two groups: (1) women of childbearing age as defined by the CDC to be 16 to 49 years old, and (2) the general adult population. The general adult population consists of adult males or females of non-childbearing ages.

The principal biomarker for fish mercury exposure is the concentration of mercury in blood. During the last 5 ½ years (January 2002 through June 2007), the Hazard Evaluation and Emergency Response (HEER) Office received 2,267 mercury blood lab results. Some of the patients were tested more than once, so the number of people tested is less than these numbers.

For the general adult population, a mercury blood level greater than 100 µg/L is considered excessive. However, this level is only considered toxic if accompanied with neurological symptoms associated with mercury toxicity such as ataxia- loss of coordination and paresthesias- abnormal touch sensations. Of the 2,267 mercury blood tests on record from January 2002 to June 2007, only 6 cases (0.26%) showed levels above 100 µg L. None of these cases were accompanied by the neurological symptoms so there are no cases of mercury toxicity within the general adult population.

For women of childbearing age, mercury blood levels ≥ 58 µg/L is the concentration associated with neurological effects in the fetus and is therefore considered toxic to the developing fetus. A cord blood mercury level of 58 µg/L is associated with a 5% increase in the prevalence of an abnormal Boston Naming Test (National Research Council (NRC), 2000). Of the 344 mercury blood lab results received from January 2002 to June 2007, there were no results for females in this group with a mercury blood level ≥ 58 µg/L.

There are no known cases of mercury poisoning due to fish consumption in Hawai`i. Man-made contributions are most likely insignificant when considering fish caught from Hawai`ian waters because there are no industrial sources of mercury in Hawai`i.

3.1.2.7 Mercury Biomonitoring Study

Results from DOH's Heavy Metal and Pesticide Exposure database indicate that a significant number of women of childbearing age in Hawai`i have mercury blood levels that exceed EPA's reference concentration of 5 µg/L. In order to better characterize mercury exposure in Hawai`i there is a need for a statewide mercury biomonitoring program in pregnant women, women of childbearing age and young children.

The HEER Office, State Laboratories Division (SLD), and the Women, Infant and Children (WIC) program are in the planning phase of developing a statewide biomonitoring program for mercury exposure in women and children by measuring mercury levels in hair. The study population will be recruited from volunteers attending WIC clinics.

Mercury in hair will be measured using the SLD Chemical Terrorism Response Laboratory Direct Mercury Analyzer. After Institutional Review Board approval, the University of Hawai`i will assist the HEER Office in collection of hair, establishing a confidential database, and dissemination of results to study participants.

3.1.2.8 Lead Weight Manufacturing site (Kapaa, Kauai)

As follow-up to a HEER Office emergency response action and under the authority of Hawai'i Revised Statutes 128D, Environmental Response Law, and the Hawai'i Administrative Rules 11-451, State Contingency Plan, HEER Office conducted a site assessment of a residence where leaded fishing weights were being manufactured in Kapaa, Kauai. The investigation was initiated in April 2007, by a complaint regarding the potential lead exposure in a residential neighborhood from a fishing-weight business that had been conducted for the past 2-3 years. The owner of the business had been smelting lead ingots in his residential backyard workshop to make lead fishing weights that were sold to all of the fishing supply stores on Kauai.

The owner's grandchildren live at the residence and other grandchildren are frequent visitors, so there was increased concern because children's developing nervous systems are sensitive to the damaging effects of lead. The Hazard Evaluation Environmental Illness and Injury Reporting System database shows no record of blood lead measurements ever being done for any of the residents or family. A public-health nurse from the DOH Family Health Services Division on Kauai was recruited to evaluate the health of the resident grandchildren and their mother and assist, if necessary, with testing their blood for lead. This investigation is still proceeding.

3.1.2.9 Waimea Canyon Elementary and Middle School, Kauai

Faculty, and some students, at Waimea Canyon Elementary and Middle School complained of respiratory effects from an unusual odor present at the school on October 14, 2006. The odor was blamed on glyphosate herbicide from Kauai County's roadside weed killing or on glyphosate-containing Touchdown Pro or EPTC carbamate herbicides used by a nearby agricultural experiment station and a HEER Office emergency response action was initiated.

As follow-up to the emergency response action the Department of Agriculture's (DOA) Pesticides Branch collected samples from the school's windows and outside walls, assisted by a HEER Office toxicologist and Emergency Response On-Scene Coordinator. The samples were analyzed for pesticide residues. No pesticides were found except for an insignificant trace amount of atrazine, a common herbicide used in sugar cane fields. The source of the odor was eventually narrowed down to a stinky weed growing in the vicinity of the school. On December 12, 2006, the DOA Pesticides Branch with the coordination of the HEER Office toxicologists wrote a final letter to the Department of Education indicating no significant pesticide residues were found.

3.1.2.10 Norwegian Cruise Line and Nawiliwili Harbor, Kauai

Beginning in early October, 2006, and continuing into the present, the Kauai District Health Office and a HEER Office toxicologist and Emergency Preparedness and Response (EP&R) State On-scene Coordinator (SOSC) have been investigating complaints from residents living near Nawiliwili Harbor, concerning noxious exhaust gases emitted from Norwegian Cruise Line (NCL) cruise ships anchored for the night in Nawiliwili Harbor.

Each anchored cruise ship keeps one of its diesel engines running all night to provide air conditioning and lights for its passengers. This is similar to diesel-burning buses sitting at Waikiki curbs with idling engines to keep the tourists cool, a practice which is now banned.

Samples of the cruise ships' fuel were analyzed and noxious naphthalene and methylnaphthalene irritants were detected in addition to the usual exhaust gases from diesel engines (carbon monoxide and respiratory-irritating nitrogen oxides and sulfur oxides). Based on California's experience with this issue, a cleaner-burning alternative fuel has been suggested by the DOH to the cruise lines.

In addition to investigating complaints concerning the sewage and diesel exhaust odors, the Clean Air Branch has conducted monitoring of pollutants such as hydrogen sulfide which may be associated with sewage, sulfur dioxide which is a result of combustion, and volatile organic compounds, which is a product of fossil fuel, utilizing both portable and screening methods. The presence of any of these pollutants would help in determining possible sources of the odor. Ambient air quality monitoring would not only assist in identifying the source, but it would also provide data that is useful in determining the actual level of exposure to residents. DOH continues to work with industry including NCL to determine the extent of the problem and plans to conduct further monitoring including particulates

3.1.2.11 Ma'ili Elementary School Playground's Sand

In February 2007, State Senator Colleen Hanabusa forwarded a constituent's concern about the presence of silica sand in the playground sandbox at Ma'ili Elementary School. The constituent had read on the Internet about the tiny, needle-like fibers of crystalline silica being a human cancer agent, which is true, but had incorrectly concluded that this was the same thing as the normal sand found on beaches and in school playgrounds. Normal sand is made of silica, in the form of relatively huge, rounded, harmless grains. The HEER Office toxicologists wrote a letter reply to the Senator and Ma'ili School's principal. A HEER Office SOSC obtained a definitive answer from a University of Hawai'i geologist, supporting the absence of a health hazard.

3.1.2.12 Federal Bureau of Investigation Case

In December, 2006, an attorney testifying for the government in a federal case had the skin of his hand burned by chemicals which had been applied to his car's door handle. The FBI interpreted this as a possible terrorist threat and consulted a HEER Office SOSC and toxicologist. The FBI's laboratory analysis of the chemicals on the door handle showed a substance that is known to be irritating to the skin. The determination was made that if someone had deliberately wanted to hurt the plaintiff there were much more corrosive alternatives that could have been used.

3.1.2.13 Wailoa Small Boat Harbor Dredging Project, Hilo

A Department of Land and Natural Resources (DLNR) project for Dredging of the Wailoa Small Boat Harbor was completed by the DLNR contractor who provided sampling results showing that the contaminants found in the sediments (primarily arsenic and chromium) were below the DOH levels of concern. The HEER Office (Clarence A. Callahan, Project Manger) assisted the DLNR's contractor in designing a multiple increment sampling approach for the work completed as a two-phase project consisting of dredging two areas of the small boat harbor. The DLNR managed the dredged material in two piles until further evaluations showed that the contaminant levels would permit the primarily sandy material to be used for foundations and fill by the City and County government.

3.1.3 Key State Lead Cleanup Actions

3.1.3.1 Honolulu Harbor

The Honolulu Harbor/Iwilei District cleanup project made significant progress in the cleanup of separate phase hydrocarbon (SPH) and other contamination. The Iwilei District Participating Parties (IDPP) continued product removal activities, performed pilot testing of hydraulic removal approaches, expanded and improved the monitoring network to assess distribution and movement of the plume; initiated sampling for soil methane, and conducted subsurface pipeline discovery and product recovery efforts across and under the Nimitz Highway.

Significant cleanup plans are moving forward with an approved Remedial Action Memorandum (RAM) for OU1C and Remedial Alternative Analysis Plan for the OU2 area. DOH continues to conduct site discovery of OU3 properties and oversee removal of contamination as needed.

Notable milestones by IDPP include:

- Completion of pilot studies to evaluate hydraulic control versus vacuum truck remedial alternatives. Both technologies show relatively low SPH recovery rates and additional remedial options are being evaluated.
- Better monitoring methods, including well replacement, addition of deep wells and a network of transect borings.
- A state of the art subsurface oil characterization effort.
- Public comment, selection and approval of the cleanup remedy for OU1C, the operating unit that encompasses Piers 26 to 29.
- Completion of the pipeline investigation under Nimitz Highway, including an intensive investigation, pipeline tapping and draining, and removal of contaminated soils.
- Bulkhead Wall Repair at Pier 29 and initiation of institutional controls program.
- Statistical sampling evaluation of 400 utility vaults in OU2 for methane intrusion.
- Cumulative Product Recovery Volumes to Date Various methods and approaches to cleanup have contributed to significant volumes of oil (total gallons = 24,3288) removed from the project area.
- On schedule completion of key deliverables required under the Consent decree, including: OU2 Remedial Alternatives Analysis (RAA) Work Plan; OU1C RAA; OU2 Utility Vault Methane and TVH Investigation Work Plan; Pier 26 Storm Drain Report; DOT Harbors Pier 29 Bulkhead Wall Repair Report; OU1A and OU1B RAA Work Plan; 2007 Nimitz Pipeline Investigation Scope of Work.

3.1.3.2 BHP GASCO Benzene Site, Oahu

Cleanup activities continue at this former Gas Company site located in Iwilei, which is a part of the Honolulu Harbor district. Although 30 tons of volatile organics have been removed from the site, significant mass remains at the site. In 2007 additional data were collected to better understand why the presumptive remedy of air sparging and soil vapor extraction was not effective in significantly reducing dissolved contaminants at the site. The remedial investigation and risk assessment reports are expected shortly. A remedial alternative analysis report will evaluate other potential remedial alternatives and make a decision about next steps at the site.

3.1.3.3 ConocoPhillips, Oahu

Lowe's entered into a Voluntary Response Program (VRP) agreement to remediate the former ConocoPhillips tank farm on Nimitz Hwy. The above ground storage tanks have been removed and a detailed site characterization has been completed. A portion of the site appears to have been contaminated by the neighboring Gasco site. Lowes would like to expedite the remediation and open the hardware store in 2008.

3.1.3.4 COSTCO Iwilei, Oahu

The final cleanup decision, called a Response Action Memorandum, has been approved by DOH for the Costco warehouse and gas station sites. Costco entered the Voluntary Response Program (VRP) in June 2001 and has completed a thorough remedial investigation and risk assessment for both the warehouse and the gas station sites. At its own risk, Costco used the data collected to identify and implement presumptive cleanup remedies in advance of the final cleanup decision.

The public meeting on the cleanup decision held in September 2006, attracted significant attention with regards to the VRP process and the cleanup methodology used at the site. As the public suggested, a Final Response Action Memorandum indicating that no additional cleanup is warranted was issued by DOH. The Letter of Completion will be issued once the wording of a Uniform Environmental Covenants Act (UECA) covenant can be finalized.

3.1.3.5 Fishing-related Developments at Piers 36-38, Oahu

Soils at this State of Hawai'i Department of Transportation (Harbors) site are impacted by methane from degraded petroleum hydrocarbons. Buildings added to the site since 2005 include engineered methane barriers under foundations, with a passive venting system above exterior walls.

In FY 2007, after receiving public comment, an additional building was constructed for Fresh Island Fish, using the same methane mitigation technology. This building was incorporated into the site's overall Operations and Maintenance Plan for the methane mitigation systems. A quarterly methane-monitoring program above and below the site methane barriers as well as across the entire site continues.

3.1.3.6 Kaka`ako Makai

The DOH is overseeing the site investigation being conducted by for Hawai`i Community Development Authority (HCDA) in the Kaka`ako Makai area. The site is contaminated with lead total recoverable petroleum hydrocarbon (TRPH), and benzo(a)pyrene (BaP), as high as 3,890 mg/kg, 170,000 mg/kg, and 10.7 mg/kg respectively.

3.1.3.7 East Kapolei, Oahu

Sampling results from the environmental investigation at the 400-acre East Kapolei Affordable Housing Project show that all of the agricultural fields have been cleared of contamination concerns and may proceed directly to development. There is a small, one-acre parcel that was a former pesticide mixing area that has high levels of dioxin, and will need to be remediated. DOH is working closely with Department of Land and Natural Resources (DLNR) and Department of Hawai`ian Home Lands (DHHL) to implement an interim remedy at the mixing area. Further work will be required at this site prior to redevelopment.

Investigation of this property was made possible through a collaboration between DOH, State Office of Planning, and the U.S. EPA to provide approximately \$300,000 of financial and technical support to the Department of Hawai`ian Homelands. Funding for remaining cleanup requirements remains to be resolved.

3.1.3.8 Kekaha Sugar Mill Former Wood Treatment Plant and Former Herbicide Mixing and Loading Plant, Kauai

Like other sugar mill sites in Hawai`i being evaluated by DOH under EPA's Preliminary Assessment/Site Inspection (PA/SI) program, the Kekaha Sugar Mill has residual pesticide contamination brought about by sugarcane productions and operations. While the Site Investigation indicates that the site has environmental concerns, EPA decided not to list the site on the National Priority List and transferred remedial oversight to the State of Hawai`i. Because of high levels of contaminants, DLNR agreed to install a fence to restrict public access to the site. DLNR has secured funding and agreed to conduct a remedial investigation to delineate the extent of contamination.

3.1.3.9 Kekaha Sugar Mill Kekaha Town Sites, Kauai

This part of the Kekaha Mill is located in the town of Kekaha, and is under separate ownership. Environmental issues here stem from seed dipping and herbicide mixing activities. Soil and sediment samples collected indicate elevated levels of dioxin/furans and mercury, respectively. The property was formerly owned by Amfac and was recently bought by Pacific Funds, LLC. The Site Inspection report completed under the PA/SI program determined the site is eligible for listing in the National Priority List because of elevated levels of mercury however, EPA has elected to transfer the remedial oversight to the State of Hawai`i. DOH is working with the current owner to address the potential exposure risk and oversee the remedial investigation.

3.1.3.10 Kauai Agricultural Research Center-Agent Orange Site, Kauai

Because of new information obtained regarding Agent Orange application area at this experiment station, DOH collected a limited number of additional samples of soils, sediment and fish to establish if there were other risk pathways. While some elevated levels of contaminants were detected in soils, there is a low threat of exposure to humans or animals at the site. The Site Investigation report was finalized and approved by U.S. EPA in September 2007.

Between 1967 and 1968, the University of Hawai'i in collaboration with Department of Army, (Fort Detrick, Frederick, Maryland) conducted experiments to assess the defoliation effects of various pesticides, including Agent Orange, on jungle vegetation on Kauai. Investigation of this site has been supported by EPA's PA/SI program.

3.1.3.11 Aiea Mill Lot 15, Oahu

The final Remedial Action Memorandum (RAM) for the last portion of this site was approved in 2006 and is being implemented by Alexander and Baldwin. In 2004, after the site received Letters of Completion for cleanup under the Voluntary Response Program (VRP) for two other portions of the mill site, the VRP agreement was transferred by the Bank of Hawai'i to Alexander and Baldwin. Full implementation of the remedial action has been delayed as the new owner keeps changing their development plans. Negotiations between the new owner and DOH are ongoing.

3.1.3.12 Former Kahuku Sugar Mill, Oahu

The Final Response Action Memorandum for this VRP site was signed by DOH in November 2006. Proposed remedial action for this former sugar mill site includes excavation of Total Petroleum Hydrocarbons (TPH) and tetrachloroethane contaminated soil, free-phase TPH product removal, and soil "land farming" in on-site treatment cells to reduce contamination through bioremediation/aeration processes. Implementation of cleanup has been delayed due to discovery that part of site had been recently re-classified into the 100-year floodway zone. The responsible party sought to move the planned land-farming treatment cells to an adjacent lot that was out of the floodway zone. However, negotiations with the City and County of Honolulu continue for necessary permits to utilize this adjacent parcel for the land farming operation.

3.1.3.13 Former Waiialua Sugar Mill, Oahu

Soil and or groundwater contamination that may have resulted from the operation of the sugar mill are being addressed under a Voluntary Response Program Agreement. Based on concerns of possible contamination of former settling ponds adjacent to residential neighborhoods of the former mill site, the landowner agreed to expand the boundaries of the site to include the former settling ponds. The site will be investigated in two phases, with the first phase to focus on the industrial-zoned portion of the site.

The detailed site investigation work plan for Phase 1 was submitted for review in August 2007.

The HEER Office is also participating in coordination between the site owner and EPA on mandated cesspool removal/replacement actions to help facilitate the timing of site-sampling activities to coincide with the cesspool removal/replacement actions.

3.1.3.14 Former Waipahu Sugar Mill, Lot 32 , Oahu

Following earlier removals for petroleum hydrocarbons and solvents and in-situ bioremediation for petroleum hydrocarbons, the remaining remediation required for petroleum and solvents in groundwater at this site is a formal deed restriction requiring only commercial or industrial land use, and prohibiting all uses of groundwater to eliminate any potential for exposure. The deed restriction and a final VRP letter of completion were issued in October 2006.

3.1.3.15 Proposed Kea'au Hotel Site, Hawai'i

The Final Response Action Memorandum for this site was finalized by DOH late in FY 2006. There continues to be significant public interest and concern about the elevated soil arsenic levels and the cleanup decision at this site, as well as the soil arsenic levels in the Kea`au area in general (see Section 3.1.5.5 for description of Statewide Soil Arsenic Strategy) Hotel development did not occur at this site in FY 2007.

FIGURE 1 KEY RESPONSE PROGRAM STATE LEAD CLEANUP ACTIONS

**FIGURE 2 ASSESSMENT AND REMEDIATION SITES ON OAHU BY
HOUSE DISTRICTS**

**FIGURE 3 ASSESSMENT AND REMEDIATION SITES ON OAHU BY
SENATE DISTRICTS**

**FIGURE 4 ASSESSMENT AND REMEDIATION SITES ON HAWAII BY
HOUSE DISTRICTS**

**FIGURE 5 ASSESSMENT AND REMEDIATION SITES ON HAWAII BY
SENATE DISTRICTS**

**FIGURE 6 ASSESSMENT AND REMEDIATION SITES ON MAUI BY
HOUSE DISTRICTS**

**FIGURE 7 ASSESSMENT AND REMEDIATION SITES ON MAUI BY
SENATE DISTRICTS**

**FIGURE 8 ASSESSMENT AND REMEDIATION SITES ON KAUAI BY
HOUSE DISTRICTS**

**FIGURE 9 ASSESSMENT AND REMEDIATION SITES ON KAUAI BY
SENATE DISTRICTS**

3.1.4 Key Federal Cleanup Milestones

3.1.4.1 Air Force Sites

The Air Force has achieved its goal of having all of its high priority sites reach Remedy In Place (RIP) status by the end of 2007. A Record of Decision (ROD) document is a significant milestone of the remediation process because it states what the final remedy of a site will be and states the terms and conditions of the selected remedy. It requires the signatures of both the Air Force and the Deputy Director of Environmental Health for approval. The following sites have signed Record of Decision documents in place:

Hickam POL Area G and H, Operable Unit 6 SS01

The Record of Decision document was signed in July 2007. This Record of Decision document signifies that the last of the high priority sites at Hickam Air Force Base has reached RIP status.

Hickam POL Area L, Operable Unit 6 SS11

The Record of Decision document was signed in April 2007. The Record of Decision/Response Action Memorandum document is the only one in existence in the State of Hawai'i.

A No Further Response Action Planned (NFRAP) Document

The No Further Response Action Planned (NFRAP) document is another milestone document that indicates site closure. It also requires the signatures of both the Air Force and the Deputy Director of Environmental Health for approval. There are four categories of NFRAPs:

- Category I – No evidence of storage, release, or disposal,
- Category II – All contaminants below screening levels,
- Category III – Risk assessment shows acceptable risk,
- Category IV – All remedial actions are in place and complete.

The following Hickam AFB sites have signed NFRAPs in place:

Fuel Leak Site C Site SS08– The Category II NFRAP document for this site was signed in April 2007.

Fuel Leak Site D Sites SS09– The Category II NFRAP document for this site was signed in April 2007.

Fuel Leak Site O Site SS12 – The Category II NFRAP document for this site was signed in April 2007.

Manuwai Canal Site SD02 - The Category II NFRAP document for this site was signed in July 2007.

Former Navy Tower Site DA180 - The Category II NFRAP document for this site was signed in July 2007.

Former Army Cantonment Area Site DC102 - The Category II NFRAP document for this site was signed in July 2007.

Hawaii Air National Guard Drainage Ditches Site DD117 - The Category II NFRAP document for this site was signed in July 2007.

Kuntz Avenue Entrance Dump Site LF139 - The Category II NFRAP document for this site was signed in July 2007.

Hawaii Air National Guard Wash Rack Site RW165 - The Category II NFRAP document for this site was signed in July 2007.

Former Hawaii Air National Guard Wash Rack Site RW166 - The Category II NFRAP document for this site was signed in July 2007.

Medium Risk Sites

Several medium-risk sites will be under investigation over the next fiscal year and the Air Force's internal goal for addressing all of its medium-risk sites is 2011.

Hickam Air Force Base Underground Storage Tank (UST) Closures - The Air Force Restoration UST program consists of 532 tanks, 207 of which have reached site closure. Approximately 146 of the 207 were officially signed off on by the Department of Health in November 2005. An additional six UST closures were signed off on in October 2006.

Hickam Petroleum, Oil, and Lubricants (POL) Pipeline Investigation - The Air Force is currently investigating the inactive POL pipeline and its associated valve pits that run from Waikakalaua Fuel Storage Annex to Hickam Air Force Base. The project will be investigating approximately 45 potential sites where releases to the environment may have occurred.

Kaala Air Force Station Waste Oil Sump (WP03) - The Category III NFRAP was signed in October 2006. This signifies the completion of all Installation Restoration Program work at Kaala Air Force Station.

Bellows Air Force Station Multiple Landfill Sites - Four sites (LF01, DA101, LF23, and LF24) are currently slated for decision documents in the upcoming months. The Department of Health has opposed the No Further Action decision made for Site LF24 (Pier Dump) and is continuing to work with the Air Force and Marines to find an agreeable solution to this site. U.S. Representative Hirono also became involved in discussions for this site and was apprised of the situation during a meeting in April of this year.

3.1.4.2 Army Sites

The Army is working on multiple sites throughout Hawai'i, utilizing the United States Army Corps of Engineers (USACE) and contractors. The Army accomplished the following environmental response actions under DOH oversight.

Fort Shafter, Oahu

Fort Shafter Flats is part of the Fort Shafter Military Reservation. There are seven separate study areas that were identified during the PA/SI as potential environmental concern. With improved collaboration between DOH and the Army, a major milestone was reached at this site in September 2006 when the Remedial Investigation /Risk Assessment report was finalized and approved by DOH. There has been no progress since September 2006.

Kalakaua Golf Course

The environmental investigation and remedy at this military housing privatization project at the former Kalakaua golf course addressed arsenic and lead contamination. The Army entered a partnership with Actus Lend Lease (Actus) for the housing development located within the Schofield Barracks Military Reservation.

With the concurrence of DOH, Actus decided to excavate and dispose of the contaminated soils at a landfill on the island of Oahu. The Environmental Closure Report (i.e., in lieu the required Removal Action Report) was submitted on September 10, 2007. Upon acceptance by DOH, a no further action determination will be made by DOH.

Kunia Field Station, Oahu

A draft Response Action Memorandum (RAM) was generated in July 2007 for the cleanup activities completed at Kunia Field Station, a WWII aircraft assembly plant just south of Schofield Barracks. Subsurface soil contamination leaked from a 305,000-gallon concrete underground diesel storage tank (UST). The UST and significant soil contamination were removed between 1994-1995.

The required remedial cap was completed in 2005, and the Operation and Maintenance (O&M) plan was approved by DOH in 2006. A 30-day public notice to formalize the decision ended in September 2007, without significant comment or objection. A final RAM is expected for in fall, 2007.

Schofield Barracks, Oahu

This site was removed from the National Priority List (NPL) on August 10, 2000. The initial listing resulted from the detection of trichloroethylene (TCE) in the drinking water wells at Schofield Barracks. The Army chose groundwater treatment system treatment at Schofield Barracks and Del Monte Kunia Village as a final remedy and EPA approved the decision.

The draft second 5-year review, submitted in July 2007 indicates that TCE contamination in the groundwater is not migrating, and the aeration treatment of groundwater is effectively removing TCE to meet the current drinking water standards. TCE and carbon tetrachloride (CCl₄) continue to be below the maximum contaminant level (MCL) of 5 µg/l. A draft groundwater sampling contingency plan was developed, addressing recommendations made by DOH to collect groundwater samples at alternate locations. DOH expects to review and approve the final second five-year review in Fall 2007.

Tripler Army Medical Center, Oahu

Erosion from 2003-04 rain events had damaged the integrity of the landfill cap at Tripler Army Medical Center (TAMC). Initial cap repairs were completed in February 2006. In order to prevent future erosion, the USACE completed the first phase of the open-drainage channel reconstruction. The final phase of construction is in progress and will likely to be completed in September 2007. However, the erosion issue at the southwest corner of the landfill, the area where the erosion impacted the old access road, has not been addressed.

Wheeler Army Air Field, Oahu

Wheeler Army Air Field is one mile south of the town of Wahiawa on the island of Oahu. A Preliminary Assessment / Site Investigation (PA/SI) Report was submitted to DOH in September 2005. Earlier cleanup actions included removal of petroleum hydrocarbon impacted soil, asbestos pipes, and buried drums. The remaining concern at the site is lead contamination resulted from munitions, and it will be addressed by the Military Munitions Response Program (MMRP).

Military Munitions Response Program (MMRP)

The Army has initiated the MMRP in response to the potential munitions-related contamination at various installations in Hawai'i. The MMRP will address the potential munitions-impacted areas not currently addressed under the Formerly Used Defense Site program, presented in Section 2.1.2.3. The PA/SI sites include Fort Shafter, Kilauea Military Reservation, Makua Military Reservation, Pohakuloa Training Area, Schofield Barracks, Waikakalaua Ammunitions Storage Tunnel, and Wheeler Army Airfield. Draft SI reports for Fort Shafter, Makua Military Reservation, Schofield Barracks, Waikakalaua Ammunitions Storage Tunnels, and Wheeler Army Airfield were submitted in October 2007 and are currently under review by DOH. A series of meeting between DOH and the Army has been scheduled for November 27 and 28, 2007 to go over those sites.

Site Closure Negotiations

DOH has worked with the Army Garrison on their recent decision to not generate Record of Decisions (ROD) for all of the Non- National Priority List (NPL) sites, contrary to the previous practice. Since CERCLA Section 120 allows federal facilities to conduct environmental responses that are consistent with the guidelines, rules and regulations, the HEER Office has agreed to accept alternate decision documents after consultation with EPA Region 9 in early 2007.

3.1.4.3 Formerly Used Defense Sites Program

The Formerly Used Defense Site (FUDS) Program pertains to all properties that were owned and utilized by the military prior to October 17, 1986 but have been transferred back to various entities. The HEER Office currently oversees twenty-seven FUDS-MMRP projects in Hawai'i, the most prominent being the Waikoloa Maneuver Area which encompasses roughly 120,000 acres of property. Other sites of interest include the Former Waikane Training area and the Heeia and Pali Training Camp areas.

The USACE has performed site inspections at various bombing and target areas (e.g., Kane Puu and Mahukona Bombing Ranges) on the Neighbor Islands and plans to initiate more site inspections (SI) throughout the islands. The annual FUDS synchronization meeting was held on June 26 and 27, 2007. Final versions of SI reports for the Kane Puu and Mahukona Bombing Ranges Draft planning documents were submitted on September 27, 2007, which included a recommendation for further investigation at the sites. However, the reports also contained a conclusion to exclude investigation of munitions constituent contaminants from future investigation, which DOH regards as a mistake.

Draft were submitted by USACE for seventeen of the FUDS MMRP sites in August 2007 and reviewed by DOH. A Technical Project Planning meeting was held for four additional FUDS-MMRP sites on October 9, 2007. The HEER Office forwarded comments for FUDS-MMRP sites to the USACE on October 4, 2007 based on the review of the submitted Draft SI Planning Documents and additional comments on October 16, 2007 based on information presented during the TPP meeting. Both sets of DOH comments contained overall recommendations for all FUDS-MMRP sites, in particular to recommend a more refined multi-incremental sampling approach for the investigation of munitions-related contamination with the guidance entitled Multi-Increment and Decision Unit Investigation Strategies (DOH, May 2007).

3.1.4.4 Navy Installation Sites

Pearl Harbor Update

The Pearl Harbor Naval Complex was placed on EPA's National Priority List (NPL) in 1992. The site consists of hundreds of individual investigations that are being conducted concurrently. In many cases, the Navy has opted to use removal actions to quickly address high priority environmental concerns, while working on a parallel course with EPA to complete the full CERCLA requirements needed to reach final closure on the contaminated sites.

EPA invoked dispute resolution with the Navy in May 2007 over the sediment investigation in Pearl Harbor due to concerns about data gaps in the investigation. The site encompasses the entrance channel, West Loch, Middle Loch, East Loch, and Southeast Loch. Naval operations conducted adjacent to the site have included fuel storage, handling, transfer, and recycling facilities as well as operation, maintenance and support facilities, and military landfills. Past waste handling and disposal methods, although acceptable at the time, may have caused unexpected long-term problems at some locations through the release of toxic and hazardous substances into the soil and ground water at sites surrounding the estuary as well as the estuary itself. The Navy submitted a Data Package Summary in October 2007 to address data gap concerns.

For the Aiea Laundry Facility and the Pearl Harbor Sediment Site, the Navy is currently progressing through the feasibility study phase where remedial alternatives are evaluated to determine the most appropriate alternative that will protect human health and the environment

DOH concurred with the Aliamanu Water Storage Tank Decision document, recording the successful removal action, was submitted in August 2007. The DOH has reviewed the document and anticipates approval.

Camp Smith, Oahu

The Navy removed lead contaminated soil at the site and sent it to a CERCLA waste landfill on the mainland. The final decision document will be produced after public input is received at the Proposed Plan meeting in late 2007.

Naval Computer and Telecommunications Area Master Station Pacific, Oahu

The Naval Computer and Telecommunications Area Master Station (NCTAMS) facility was placed on the National Priorities List (NPL) in May 1994. NCTAMS is composed of two sites, a Naval Radio Transmitting Facility (NRTF) at Lualualei and a receiver site in Wahiawa.

While the majority of cleanup has been completed at NCTAMS, the site investigation identified 15 sites that require further investigation at NRTF Lualualei and NCTAMS Wahiawa. Proposed Plan meetings were held for both the Old Incinerator Site and Old Wahiawa Landfill site in June 2007. Another Proposed Plan meeting for the Building 6 site is slated for early September.

Navy Transformer Sites, Oahu

The Navy has completed cleanups of 58 transformer sites throughout Hawai'i, and is in the process of closing out these sites. Sixteen Records of Decision and 5 other decision documents for these transformer sites were approved by DOH in 2007.

Barbers Point

Decision documents for two Kalaeloa Barbers Point sites, the Former Skeet and Trap Range and Ordy Pond were approved by DOH in 2007.

3.1.5 Key Programmatic Accomplishments

3.1.5.1 Brownfield Forums

DOH launched its Hawai'i Brownfields Forum pilot program on April 5, 2006. The purpose of the Forum is to encourage and facilitate the redevelopment of contaminated property in Hawai'i through outreach, training opportunities and collaboration between public and private stakeholders. Approximately, 180 people attended the initial forum, representing a broad range of parties involved with redeveloping brownfields. The Hawai'i Brownfields Forum #2 was held November 1, 2006. The focus of the this Forum was a panel discussion regarding "Obstacles and Incentives for Brownfields Redevelopment. The Hawai'i Brownfields Forum #3 was held October 24, 2007 with sessions devoted to two important topics: 1) Managing the risks associated with redeveloping contaminated property, and 2) Information landowners and developers need to know about performing environmental site investigations.

Collectively, the three Forums were a pilot effort to determine whether there is value in bringing all brownfields redevelopment stakeholders together. Feedback on the Forums has generally been very good, with climbing attendance, and a mix of new and returning participants. The Department will be evaluating the pilot effort and deciding how to best continue to promote cleanup and redevelopment of contaminated property in Hawai'i during the coming years.

3.1.5.2 Partnership Trainings

The HEER Office has created a Partnership Training Initiative to improve the technical capabilities of State project managers and local environmental consultants by hosting joint environmental cleanup trainings. These trainings provide an opportunity for environmental professionals from the public, private and military sectors to learn the latest investigation techniques applicable to Hawai'i's unique environment. Over the past few years, the HEER Office has sponsored trainings and workshops on: 1) Sampling for Defensible Environmental Decisions, 2) Systematic Planning for Managing Uncertainty, and 3) Environmental Forensics.

3.1.5.3 Site Investigations and All Appropriate Inquiry Requirements

In June 2007, the HEER Office sponsored a U.S. EPA training on new rules stemming from the 2002 amendments of CERCLA. Nearly 200 people came to learn about requirements for performing environmental site investigation needed to protect innocent purchasers of contaminated property. The new rules took effect in November 2006, after a three-year federal rulemaking process.

3.1.5.4 Voluntary Response Program and Clean Up Process

As part of the November 2006 Hawai'i Brownfields Forum #2, the HEER Office presented a detailed workshop, primarily for environmental consultants, on the specific requirements of the State Contingency Plan and the State's process for investigating and cleaning up contaminated property.

3.1.5.5 Statewide Soil Arsenic Strategy

Hawai'i faces unique issues with arsenic contamination in former agricultural lands. Due to historic practices and the unique tropical soils here, large tracts of land on Hawai'i have soil concentrations above state and federal soil screening levels. DOH launched the Statewide Soil Arsenic Strategy in 2006 to research, identify and address potential exposure risks and protective remedial approaches to safely manage development on former agricultural lands. The HEER Office was awarded \$117,000 in grant funding from EPA to develop a statewide soil arsenic strategy and implementation plan in FY 2007. Work on the statewide soil arsenic strategy and implementation included:

Research/Research Collaboration on Soil Arsenic Issues:

- Funded University of Hawai'i at Manoa for graduate research projects on:
 - Soil arsenic remediation methods, including phytoremediation and geochemical fixation,
 - Use of x-ray fluorescence (XRF) spectrometry equipment for rapid screening of soil/sediment arsenic levels.
- Cooperation with Oak Ridge National Labs (ORNL) to include Hawai'i Island soils in a national ORNL study designed to predict arsenic bioavailability. Data is expected in FY 2008.

- Cooperation with the Royal Military College of Canada, Kingston, Ontario to provide Hawai`i Island soils for bioaccessibility testing using Canadian testing protocols, and comparing these results with U.S. bioaccessibility testing methods currently recommended by HEER Office.
- Evaluation of arsenic bioaccessibility testing capability by a commercial lab in Hawai`i.
- Contract research to evaluate arsenic content of soils and soil products from Hawai`i Island.
- Contract research to develop Geographic Information System (GIS) layers identifying former agricultural lands by crop type.
- HEER Office presentations on Hawai`i soil arsenic testing methods and soil arsenic testing data at scientific conferences, including the University of Massachusetts Soils, Sediment, and Water Conference in October 2006, and the Louisville Chemistry Conference in June 2007.

Communication/Coordination Activities:

- February 2007. Technical forum with EPA Region 9 officials to review, discuss and validate Hawai`i's arsenic investigation approaches, including development of multiple lines of evidence to support Hawai`i's innovative use of bioaccessibility testing to establish screening and remedial goals.
- Release of detailed guidance documents for evaluating agricultural lands (see Section 3.1.5.10).
- February 2007. Established HEER Office staff position in Hilo to work directly with local stakeholders on arsenic and other local contamination issues.
- Coordination with Honolulu City and County Department of Permitting and Planning, Hawai`i County Planning Department and the Hawai`i District Health Office to initiate discussions regarding environmental reviews of proposed development projects on agricultural lands.

3.1.5.6 Voluntary Response Program

The Voluntary Response Program (VRP) encourages voluntary cleanup of contaminated properties. Under the law, DOH has the authority to grant prospective purchasers or developers an exemption from future liability if cleanup is performed to DOH specifications under the program. Past, current, or future property owners can participate in this program, but exemptions from liability can only be given to future purchasers or tenants. Completion of the voluntary cleanup action is accompanied by a Letter of Completion (LOC), issued by the Department of Health and noted on the property deed. There are a total of 15 active VRP sites in the program.

Responsible parties with sites participating in the VRP are paying the State for DOH oversight of their remedial activities. In FY 2007, the VRP program recovered \$27,200 in program costs from responsible parties.

3.1.5.7 Site Discovery and Sampling of Opportunity

As a part of the new Site Discovery Program, Sampling of Opportunity was conducted at several former sugar operations along the Hamakua Coast. Sampling took place at former pesticides storage, mixing and operational areas. This early sampling approach allows DOH to rapidly assess potential hazards from newly discovered sites, and thereby prioritize appropriate agency response.

3.1.5.8 Cost Recovery

HRS 128(D) provides legal authority to cost recover for DOH oversight of remedial activities at contaminated sites in Hawai'i. In FY 2007, DOH received \$54,705.91 in payment for oversight expenses for the Honolulu Harbor and GASCO cleanup sites in accordance with the terms of the respective Agreements for Remedial Action.

Planning efforts, software development and fiscal coordination with ASO are needed to provide the technical resources needed to expand the DOH cost recovery program in to other cleanup investigations in the State Response Program.

3.1.5.9 Technical Guidance

Partnership Trainings:

The HEER Office has created a Partnership Training Initiative to improve the technical capabilities of State project managers and local environmental consultants by hosting joint environmental cleanup trainings. These trainings provide an opportunity for environmental professionals from the public, private and military sectors to learn the latest investigation techniques applicable to Hawai'i's unique environment.

Response Program and UST Program Technical Guidance Manuals Revisions

The HEER Office and the Solid and Hazardous Waste Branch UST Section partnered in early FY 2007 to revise the existing Technical Guidance Manuals for each program. With strong contract support from Bureau Veritas, and frequent stakeholder involvement, a vision was developed for a complete revision of the documents, including a user-friendly web-based format. To date, drafts have been completed for the following subject areas for the HEER Office Manual:

- The Site Discovery, Investigation, and Cleanup Process
- Site Investigation Design and Implementation
- Sampling Approach Guidance
- Soil and Sediment Sampling Guidance
- Groundwater and Surface Water Sampling Guidance
- Data Quality Assurance and Quality Control
- Handling and Analysis of Samples
- Removal Action Process

- Remedial Action Process
- Report Formats and Content Requirements

Focused stakeholder input will occur this fall and winter, with an expected public release on the DOH website in Spring 2008. Additional chapters on less common technical issues will be added over the succeeding months. The parallel UST TGM will also be drafted in this time period.

3.1.5.10 Issuance of New Guidance

HEER Office issued a number of guidance documents to assist consultants and property owners in the most current and scientifically defensible approaches to identifying, characterizing and managing hazardous substances.

- Tier 2 Direct Exposure Spreadsheet Model, November 2006
This model allows consultants and property owners to evaluate hazards for industrial property uses.
- Vapor Unit Conversion Program, April 2007
The intrusion of vapors from contaminated soil and groundwater into overlying buildings has become a significant concern on the mainland, but is less frequently encountered in Hawai`i. The vapor unit conversion tool is intended to help consultants evaluate and determine if this is a potential environmental hazard at their site.
- Investigation and Assessment of Pesticides in Former Agricultural Lands and Related Areas, May 2007
- Soil Action Levels and Categories for Bioaccessible Arsenic, August 2006
These guidance documents pertain to pesticides and related contaminants such as arsenic and dioxins to help expedite the investigation of former agricultural lands. Hawai`i has seen a significant increase in the proposed projects to development former agricultural land for residential and other purposes in the past several years.
- Long-Term Management of Petroleum-Contaminated Soil and Groundwater, June 2007
Isolated areas of heavy petroleum contamination are common in many areas of Honolulu and pose a potential hindrance to subsurface utility work and redevelopment. The June 2007 technical memo provides guidance on the identification of impacted areas and associated environmental hazards and recommends approaches for long-term management of contamination that cannot be easily remediated.
- Chapter 11-452, Hawai`i Administrative Rules, entitled "*Requirements for Decontamination and Cleanup of Methamphetamine Manufacturing Sites*", has been adopted, November 16, 2007
Cleanup of clandestine drug labs falls outside of standard environmental cleanup requirements of HRS 128D.

3.1.5.11 Update on the Uniform Environmental Covenants Act Chapter 508C, HRS

The Uniform Environmental Covenants Act (UECA) bill, introduced into the 2006 legislature, was passed and signed into law on July 2006 as Act 279. The new law provides a statutory framework for environmental covenants, which will be used to assure that controls on contaminated property will properly identified on legal title and remain enforceable for as long as they are necessary.

The UECA was adapted from a national model uniform law published in 2003 by the National Conference of Commissioners on Uniform State Laws. Hawai`i joins at least a dozen other states that have passed the law.

A model covenant has been drafted and, as this report goes to press, the HEER Office is working with the Office of the Attorney General and a Voluntary Response Program (VRP) participant to finalize the first environmental covenant to be granted under the new UECA statute. In addition, after nearly a year of collaboration, in September 2007, the HEER Office and the Department of Defense have reached an acceptable agreement that will guide implementation of the UECA on DOD-owned property. The agreement basically relies on existing DOD policies and a sharing of information on land use controls during the time DOD retains ownership of the property. At such time as the property is transferred to a nonfederal party, a UECA covenant acceptable to the State will be granted and recorded on the property title.

3.1.5.12 Final Rules Adopted for Decontamination of Illegal Drug Manufacturing Sites

Under Act 170, SLH, 2006 DOH adopted interim rules and guidelines for the decontamination of illegal drug manufacturing sites on September 6, 2006. The Department adopted and the Governor approved final rules on November 16, 2007. Public hearing notices were published and a Public Hearing was held in Oahu on September 12, 2007, and in Maui, Kauai, and Hawai`i (Hilo) via video conferencing. The Deputy Attorney General assigned to review these rules has determined that no substantial changes were made to the proposed rules.

The facts and circumstances regarding the proposed adoption of these rules have not changed since the Department's initial submittal of the proposed administrative rules prior to the public comment period. A few changes have been made to the proposed rules in response to comments received during the public review and comment period. These changes were made only for the purpose of clarification and are presented in an attachment to this memo.

The proposed rules will have an impact on small businesses. As such, the Department has previously prepared a Small Business Impact Statement. The document was submitted to, and reviewed by, the Small Business Regulatory Review Board prior to the Department holding its public hearings.

The Small Business Regulatory Review Board recommends the adoption after considering the post public hearing statements. The complete post-hearing packet has been submitted to the Governor for final approval and adoption of the rules.

3.1.5.13 Residual Pesticide Risk Management at Military Base Housing Sites

As a part of its ongoing military housing privatization initiative, the Department of Defense is partnering with private developers to demolish and rebuild dozens of military base housing neighborhoods on Oahu. Residual pesticides in soils at these sites (chlordane, dieldrin, arsenic, etc.) pose risks that can be exacerbated by large-scale grading and excavation during neighborhood-wide demolition and rebuilding. Due to a statutory exemption for legally applied pesticides, the applicability of HRS 128D to these sites is unclear. Nevertheless, DOD is working cooperatively with DOH to protect the health of future base housing residents.

In 2007, DOH worked directly with the two largest military housing privatization developers to establish and approve standard operating procedures to ensure that the risks posed by these residual pesticides are managed appropriately. As a result of this proactive collaboration, pesticide concerns are being addressed at a programmatic level, with DOH concurrence. This allows rapid and safe redevelopment of these military neighborhoods.

3.1.6 Key Community Involvement

Working closely with the public, regulated community, and environmental consultants leads to better environmental results and improved regulatory relationships.

Chemical Agents of Opportunity for Terrorism

A free one-day course on Chemical Agents of Opportunity for Terrorism was offered to Federal and State agencies on February 5 and 6, 2007. The course was taught by physicians from the American College of Medical Toxicology, their travel expenses were defrayed by the U.S. Centers of Disease Control's Agency for Toxic Substances and Disease Registry, and the course was arranged and coordinated by a HEER Office toxicologist.

The course offered instruction in chemicals that are easily available to the general public that could be used as Weapons of Mass Destruction by terrorists. Eighty-eight people attended on Monday, February 5, and another 92 on Tuesday, February 6. They represented the Honolulu Police Department, Honolulu Fire Department, Honolulu City and County's Emergency Medical Service's Medical Strike Team, U.S. Army from Tripler Army Medical Center and Schofield Barracks, the U.S. Marines' Explosive Ordnance Disposal Squad from Marine Corps Base Hawai'i, the U.S. Navy from Pearl Harbor, the FBI, the Defense Logistics Agency of the Department of Defense, the Hawaii Army National Guard's 93rd WMD Civil Support Team, the Oahu Civil Defense Agency, Chevron Hawai'i Oil Refinery, and the Hawai'i Department of Health including the Kauai and Maui District Health Offices. The HEER Office toxicologist videotaped the lectures, transferred the recordings to DVD, and the DVDs and extra copies of the Course Syllabus are being used to instruct personnel at the 94th WMD Civil Support Team on Guam and at Neighbor Islands' Fire Departments.

Training Partnership Events with Environmental Consultants

HEER Office encourages consultants and project developers to collaborate with staff early to better understand regulatory requirements and to work together to identify and address uncertainties. HEER Office sponsored four Training Partnership Events with environmental consultants as noted:

- EPA All Appropriate Inquiry training,
- Managing Uncertainty with Systematic Planning,
- Sampling for Defensible Decisions (multi increment sampling),
- Environmental Forensics.

Meetings with the Hawai`i Association of Environmental Professionals

HEER Office staff continued to meet regularly with members of the Hawai`i Association of Environmental Professionals (HAEP) Response Working Group to discuss topics of common interest related to site investigation and cleanup.

Scientific Advisory Committee - Vog

A toxicologist in the Risk Assessment Section continues to participate in monthly teleconferences with the Scientific Advisory Committee that is funded by the National Institute of Environmental Health Sciences (NIEHS). This committee, which consists of a group of scientific consultants and community leaders, connects via teleconference each month to review the progress of the ongoing vog studies and to strategize future directions. Through this committee, the DOH toxicologist obtains up to date findings regarding the vog studies and assists in the planning and implementation of proposed vog studies.

HEER Office Media Interviews on High-Profile Issues

Kahuku High School, Pesticide Spray Drift: On Thursday, May 3, 2007, a sod and turf farm in Kahuku sprayed an organophosphate insecticide known as acephate or Orthene on its turf plots in the early afternoon of an unusually windy day. Faculty and students complained of nausea, dizziness, eye, and respiratory irritation. Acephate is known to cause these effects temporarily and not permanently. On the day of the incident, a HEER Office toxicologist provided advice to the Emergency Department of the Kahuku Clinic and a telephone interview to Channel 8 TV News. The campus was closed on Friday and the ensuing Monday amid continuing complaints from the faculty of eye irritation and other adverse health effects which they attributed to lingering pesticide residues. On Monday, May 7, the Department of Education superintendent for Kahuku High School's district called the HEER Office and requested an inspection of the school. On Tuesday, May 8, a HEER Office toxicologist and a Department of Agriculture Pesticides Branch inspector interviewed faculty members who had been affected. They also inspected the campus, along with the school principal and the DOE District Supervisor. It was determined that the campus was no longer affected by lingering pesticide residues. It was further determined that Kahuku High School's cafeteria and kitchens are scrubbed down with detergents daily, including on the day of the incident and succeeding days, so that the food prepared there could not have been contaminated by any pesticide residues. This was an important point of concern to the DOE and the public, since the lunches served at Sunset Beach Elementary School and Kahuku Elementary School are prepared in Kahuku High School's kitchens. Kahuku High School re-opened its doors to normal instruction on Thursday, May 10.

Kunia Groundwater Contamination from Del Monte's Pesticide Use: On June 8, 2007, Channel 8 TV News interviewed a HEER Office toxicologist after the U.S. Environmental Protection Agency issued a press release concerning continuing clean-up activities of the drinking-water aquifers under Kunia. The history of the groundwater contamination by pesticides used in pineapple fields was explained during the interview, emphasizing the Department of Health's pro-active promulgation of State drinking water standards for DBCP and EDB, years before the EPA's national drinking water standard for those chemicals.

Hydrogen Sulfide Gas from Kailua Wastewater Treatment Plant: On August 30, 2006, State Representative Cynthia Thielen expressed the concerns of her constituents in the Aikahi area about the undesirable odor of hydrogen sulfide from Kailua Wastewater Treatment Plant, which was caused by mechanical breakdowns at the Plant. The HEER Office toxicologists collaborated with the Clean Air Branch on a DOH reply to Representative Thielen's letter. On October 24, 2006, Channel 8 TV News interviewed a HEER Office toxicologist. On October 25, the Honolulu Star-Bulletin reported the story.

3.2 Environmental Management Division Local Area Network Improved

The ERRF funds the Information Technology Specialist computer network manager position for the Environmental Management Division (EMD). The network information manager supports and maintains the Local Area Network/Wide Area Network (LAN/WAN) connections for the division and is working to improve and upgrade network servers and connections.

A major milestone accomplished in FY 2007 was the completion of the migration from Pegasus Email to Microsoft Exchange Server and Outlook. Work to migrate network capabilities from Novell to Windows Active Directory continues.

Support for upgrades to the Environmental Health Administration's One Stop project, the Clean Water Branch (CWB) Water Quality web application project, and the Clean Air Branch (CAB) database project is ongoing.

3.3 Clean Water Branch Sewage Spill Notification Web Site Improved

The ERRF supports an Environmental Health Specialist (EHS) IV position and an Information Technology Specialist (ITS) IV position for the CWB. ERRF funding to the Clean Water Branch (CWB) was utilized to improve the warning and sewage spills on the DOH web site. The CWB started a "Clean Water hotline (586-5826) and web page to warn of contaminated waters, and the website also gives test results. Our water quality data postings and spill postings became very important to getting current information to the public.

3.4 Safe Drinking Water Branch Protection of Public Health and Drinking Water Quality Improved

The ERRF supports eleven Safe Drinking Water Branch (SDWB) personnel and activities that have both direct and indirect drinking water protection benefits. During FY 2007, SDWB focused ERRF funding on the following major activities to protect public health and drinking water quality.

- Transmitted the first drinking water inventory and compliance data to EPA's Central Data Exchange (CDX).
- Began the migration of State drinking water chemical testing data into the Safe Drinking Water Information System /State database.
- During FY 2007, all public water systems continued to demonstrate compliance with the 90th percentile Lead and Copper action levels at consumers' taps.
- Fulfilled a federal requirement to submit a report to the Governor of the State of Hawai'i on the Capacity Development Program.
- Completed 16 sanitary surveys of public water systems throughout the State.
- Initiated a contract to conduct the sanitary surveys of four Maui surface water systems including the Wailuku, Makawao, Upper and Lower Kula water systems.
- Initiated a contract to extensively test all child-care facilities in the state for the lead content of their drinking water.
- Received 176 Underground Injection Control applications, issued 28 approvals to construct, 87 operating permits, and closed 24 injection well facilities.

3.4.1 Lead and Copper Rule Administration

Lead and copper concentrations in Hawai'i's drinking water are regulated under state implementation of the Federal Lead and Copper Rule. Administration of this rule is one of the responsibilities of the Safe Drinking Water Branch staff supported by the Environmental Response Revolving Fund (ERRF). The Rule requires drinking water systems to collect and analyze "first draw" water samples from kitchen or bathroom cold water taps in homes most likely to have elevated levels of lead or copper. Typically, these homes were built before 1982 with copper pipes and lead solder.

Exceeding the lead or copper action level requires the water system to propose a corrosion control treatment recommendation to the Safe Drinking Water Branch. There are currently 10 water systems in the State that have had to implement corrosion control treatment to reduce the lead and copper concentration in tap water below the action levels. Two water systems switched their water sources from spring sources to well sources. Surface water such as comes from shallow spring sources is more aggressive than water that comes from groundwater sources such as wells. The Safe Drinking Water Branch anticipates other water systems will require corrosion control treatment as surface water sources are developed.

Throughout FY 2007, all public water systems in the state had lead and copper concentrations in the tap water below the lead and copper action levels.

3.4.2 Development and Maintenance of Disinfectant/Disinfection By-Products Rule and Interim Enhanced Surface Water Treatment Rule

The ERRF supports a staff person who was originally responsible for administration of the Surface Water Treatment Rule which was promulgated by EPA in 1991. This rule imposed treatment, monitoring, and reporting requirements on surface water systems for the removal or control of several microorganisms. Since that time, EPA has become aware of and concerned with additional microorganisms, which are more difficult to filter and are more resistant to conventional disinfectants. In response, they have promulgated more stringent requirements for surface water systems in the form of the Interim Enhanced Surface Water Treatment Rule, Long Term 1 Enhanced Surface Water Treatment Rule (ESTWR), and the Long Term 2 Enhanced Surface Water Treatment Rule (proposed 8/11/03).

At the same time, EPA has recognized that the addition of disinfectants to water (primarily surface waters), which have “precursors”, can generate by-products. Some of these by-products are thought to be harmful. In response, EPA has generated the Stage 1 and Stage 2 Disinfectant/Disinfection By-Products Rules that seek to limit the concentration of disinfectants added to drinking water as well as limit the presence of disinfections by-products in the water.

The Disinfection/Disinfection By-Products and the Enhanced Surface Water Treatment suite of rules currently work together to increase public health protection by increasing protection from exposure to the targeted microbes, Giardia and Cryptosporidium, in drinking water, while assuring that the disinfectant and resulting disinfection by-product levels in the water are kept at safe levels.

The rule package for the LT1 ESWTR and the Filter Backwash Recycling Rule (FBRR) was completed and submitted to the U.S. Environmental Protection Agency in January 2006. The primacy rule package for the Long Term 2 Enhanced Surface Water Treatment Rule and Stage 2 Disinfectants/Disinfection By-Products Rule are currently under development and expected to be submitted to the U.S. Environmental Protection Agency in late 2007 or early 2008. Early implementation for these two rules is already underway in 2007.

3.4.3 Protection of Existing and Potential Underground Sources of Drinking Water (Hawai'i Underground Injection Control Program)

The Hawai'i Underground Injection Control (UIC) Program is directly responsible for protecting existing and future underground sources of drinking water (USDW) from contamination by underground injection of waste fluids. It accomplishes this by administering a permit program for injection facilities that restricts the location of these facilities away from underground sources of drinking water, and sets limits on the quality of the waste liquids disposed.

The ERRF currently supports a staff of three geologists and one clerk-typist who administer the entire program for over 800 facilities (project files) statewide. Each facility may involve multiple injection wells. Injection wells make possible many vital service facilities, for example, municipal and private wastewater treatment plants, energy generation facilities, and storm water runoff control. In addition to protection of underground sources of drinking water and the environment, the UIC program makes underground injection possible as a wastewater disposal alternative in lieu of more expensive ocean outfalls.

3.4.4 Certification of Operators of Public Water Systems

One way of protecting drinking water is to ensure that staff operating the public water systems has sufficient training to do their duties properly. Chapter 340F of the Hawai`i Revised Statutes requires all public water systems to have operators certified at the appropriate level to operate either water treatment plants or distribution systems. If a system has both, they must have certified operators in both categories. Hawai`i's program consists of a five-member Board of Certification, appointed by the Governor, which meets quarterly to set policy, act on all applications for certification, assign continuing education units to training events, and more.

The ERRF supports a staff of two, an environmental engineer and a clerk-typist. This staff compiles and maintains files on all existing certified operators, receives and prepares all applications for Board review, receives and processes all certification and testing fees, prepares the examinations, prepares all correspondence, conducts training, administers examinations, and tracks other state programs to see how they handle specific issues and more.

In addition, the ERRF supports necessary neighbor island travel of Board members who represent Neighbor Island operators and suppliers, pays for membership in the Association of Board's of Certification (ABC) which provides certification examinations and grades them (two DSO and two WTPO exams annually), and supports other certification activities such as the provision of math refresher classes, and provides travel funds for staff to proctor certification examinations on the Neighbor islands.

At the end of FY 2007, the program had 192 certified water treatment plant operators and 482 certified distribution system operators. Some operators maintain dual certifications.

3.4.5 Assistance to Owners and Users of Rain-Water Catchments Systems

Act 218 of 1997 authorizes the use of ERRF monies to administer a subsidized lead and copper testing program and to lend technical assistance to owners and users of rainwater catchments systems. The responsibility for this act is vested with the Safe Drinking Water Branch in recognition of the need by many users of catchments for additional information concerning water quality and proper maintenance of the catchments. This measure sought to provide assistance without the imposition of regulations which were recognized as being expensive, and most probably insufficient given the wide range of building materials, paints, and coatings used to collect rainwater.

During 2007, the Safe Drinking Water Branch continued to respond to inquiries by individuals using rainwater catchments systems on a wide variety of subjects. Many individuals had questions concerning the maintenance of their systems. Some did not have any experience at all with rainwater catchments. Others called to report results of testing that they had done to determine whether or not additional remedial actions were required or to determine what range of actions were available or made sense.

Another one of the ways in which the Safe Drinking Water Branch provides technical assistance to rain-water catchments users is to assist in the printing of the College of Tropical Agriculture and Human Resources brochure "Guidelines for Users of Rainwater Catchments Systems for Hawai`i". During 2007, SDWB funded the third printing of 10,000 copies of the brochure for distribution to interested users of rainwater catchment systems.

Also in 2007, the Safe Drinking Water Branch entered into a memorandum of agreement with the University of Hawai'i at Hilo to provide administrative support to the American Rainwater Catchment System Association for its 2007 National Conference to be held August 14-17, 2007. This conference will feature experts from all over the nation and the world on rainwater harvesting and use. It will provide an excellent opportunity for people in the community to join with these experts and learn from their collective knowledge about the many aspects of rainwater catchment and use.

3.4.6 Safe Drinking Water Information System (SDWIS/State)

The Hawai'i State Legislature authorized the support of an Information Technology Specialist for the Safe Drinking Water Branch. This authorization was in response to a number of audits and program assessments recommending that the program needed improved data management. In addition, the U.S. Environmental Protection Agency had developed new data management software known as the Safe Drinking Water Information System. Lacking the technical expertise, the Safe Drinking Water Branch was unable to take advantage of the availability of this new data management system.

While originally meant to generate Environmental Protection Agency reports, the system has evolved into an attempt to help State drinking water programs manage the information necessary to supervise public water systems. The Safe Drinking Water Information System houses three major categories of information: inventory, sampling, and monitoring. Inventory data include information on individual drinking water systems such as the system location, size, and population served. Sampling data include lab results for chemical, microbiological, and radiological contaminants regulated by the U.S. Environmental Protection Agency and the state. Monitoring information contains the schedule for sampling required under each U.S. Environmental Protection Agency rule. By comparing the monitoring schedules to the sampling data, the system can make simple, automated non-compliance determinations for the Total Coliform Rule. Eventually, the U.S. Environmental Protection Agency hopes to update the software periodically to add new capabilities, such as non-compliance determinations for other drinking water rules.

The Safe Drinking Water Branch Information Technology Specialist is assigned the task of preparing the Safe Drinking Water Branch for the adoption of the Safe Drinking Water Information System/State, version 8. Since August 2005, this staff member has successfully implemented major portions of SDWIS/State Version 8, has successfully applied the data validation and extraction program known as FedRep which prepares and qualifies information for transmission through the exchange network to EPA's Central Data Exchange (CDX) and submitted inventory and compliance data to EPA's SDWIS-Fed. From SDWIS Fed, the information will go into the federal data warehouse. Once full implementation of SDWIS/State 8.0 is achieved, we will be ready to move to the first of two web release versions known as SDWIS Web Release 1.0 (SWRL 1) and then to SDWIS Web Release 2.0 (SWRL 2).

Capacity Development Program

The capacity development program is administered within the Safe Drinking Water Branch. The Safe Drinking Water Act Amendments of 1996 mandated that before approvals to operate the systems are granted, new water systems must demonstrate technical, managerial, and financial capacity. The Safe Drinking Water Act also requires states to develop a strategic plan to identify and prioritize those existing water systems most in need of assistance and to improve the technical, managerial, and financial (TMF) capacity of existing public water systems.

Existing Water Systems Identified and Prioritized for Improvement

State's initial strategic capacity improvement plan provides for Safe Drinking Water Branch assistance to improve the technical, managerial, and financial (TMF) capacity of the five water systems identified as most in need of improvement. The Safe Drinking Water Branch provided assistance training to water system management and operations aware of their system's shortcomings. However, because most of the systems were financially strapped, substantial improvements to the infrastructure could not be implemented.

Circuit Rider Program

The circuit rider program managed by the SDWB requires that an individual experienced in water system operation visit privately owned small water systems on a periodic basis. The Safe Drinking Water Branch entered into a five-year contract with a non-profit organization to implement the circuit rider program in October 2004. The circuit rider visits small privately owned water systems to provide a variety of services as follows:

- Assist water system operators in correcting any operational problems.
- Train operators on how to prevent contamination of their water source(s) and storage tank(s).
- Help managers understand the drinking water regulations.
- Help prepare new water system operators for the national certification examination.
- Provide assistance to improve the capacity of the system.

The program has shown positive results. The Safe Drinking Water Branch staff noted improvements when performing sanitary surveys of water systems previously visited by the circuit rider.

Continuing Education Program for Drinking Water System Operators

The Safe Drinking Water Branch worked with the University of Hawai'i's Outreach College to develop and implement a long-term continuing educational training program for drinking water system operators throughout the state so water system operators may maintain their certification. During FY 2007, the University of Hawai'i provided at least one continuing education credit (CEU) on Kauai, Oahu, Maui, Molokai, and Hawai'i. Additional training is being scheduled for the major islands and Lanai in FY 2007.

3.5 Solid and Hazardous Waste Branch Waste Management Recycling, Monitoring, and Permitting Continues

The ERRF supports ten Solid and Hazardous Waste Branch personnel and activities focused on used oil management and recycling, special waste management, management of Leaking Underground Storage Tank (LUST) sites, inspection of Underground Storage Tank (UST) facilities, and oversight of the County's Oil Recycling Program.

3.5.1 Used Oil Management and Recycling

The Environmental Health Specialist (EHS) IV Permit Writer, who is supported by the oil fund, provides oversight of contaminated facilities undergoing ground water monitoring (Chevron Refinery, Tesoro Refinery, Hawaiian Western Steel and Chemwood). The Department receives between 3-4 applications annually for used oil facilities. Renewal of expiring permits is ongoing. Non-permitted used oil handlers are usually identified through complaints and during hazardous waste inspections.

3.5.2 Special Waste Management

The Special Waste permitting engineer supported by the ERRF is responsible for permitting and monitoring activities over a wide range of special waste management facilities including petroleum contaminated soil (PCS) remediation facilities. Another major focus is the permitting and oversight of Auto Salvage facilities where a primary concern is the proper management of gasoline, oil and other automotive fluids removed from the vehicles. Currently the Engineer has responsibility for more than 27 permitted entities, which deal directly or indirectly with oil related issues.

3.5.3 Management of Leaking Underground Storage Tank Sites.

The SHWB total number of active Leaking Underground Storage Tank (LUST) sites is 240. The Environmental Health Specialist (EHS) III has an active caseload of 60 LUST sites at this time and provides project oversight to all remedial efforts of his cases. The EHS IV provides team unit leadership for four other EHS III staff. The EHS IV also works on additional active LUST sites.

3.5.4 Inspection of Underground Storage Tank Facilities

The Environmental Health Specialist (EHS) III continues to conduct operational inspections at UST facilities and issue field citations as necessary. These inspections include review of release detection records, documents demonstrating evidence of financial responsibility, and spill and overfill prevention equipment and corrosion protection standards. The goal of these inspections is to prevent releases of petroleum and hazardous substances from UST systems and to minimize the volume of release if one does occur.

The field citation is similar to a traffic ticket and is issued for easily verifiable and correctable violations. The citation penalty amounts are lower than tradition enforcement tools. Citations are usually issued in the field at the time of an inspection. The owner or operator must return to compliance and pay the penalty within 30 days of issuance of the citation.

The UST EHS IIIs also provide assistance to consultants and contractors who request and review UST facilities files. Timely review of facility files assists the banking, real estate, and petroleum industry to complete transactions involving the sale or return of properties that were affected by petroleum releases.

3.5.5 Oversight of County's Oil Recycling Program

The public is very much aware of the environmental issues and the Department continues to receive and respond to used oil complaints and illegal dumping on all islands. Since January 2006, the Hazardous Waste Section has received and responded to 21 used oil related complaints.

3.6 ERRF Funding to Special Environmental Programs

During FY 2007, ERRF funding was allocated through the HEER Office to special state programs managed within the Department of the Attorney General, Department of Health Environmental Management Division Solid and Hazardous Waste Branch, and the University of Hawai'i.

3.6.1 Environmental Crimes Unit Within the Department of the Attorney General Continues

The Environmental Crimes Unit (ECU) within the Department of the Attorney General formed in 2004. The mission of the ECU is to identify, apprehend, and successfully convict significant violators of environmental law who pose substantial risks to human health and the environment or to environmental regulatory integrity (e.g., those who commit fraud, false reporting, and concealment). It is the State's intent to maximize compliance and reduce threats to public health and the environment by employing an integrated approach of compliance assistance, inter-governmental coordination, and vigorous civil and criminal enforcement.

The Department of Health reallocated \$169,123 of HEER Office emergency response operations funding to two investigators for one year dedicated to conducting environmental crime investigations for the state. These investigators work closely with the Department of Health and the EPA Criminal Investigations Division. The Attorney General has also assigned two deputy attorneys general to prosecute environmental crimes in state court.

The unit investigates and prosecutes environmental crimes that pose a substantial risk to public health or the environment. These investigations include, but are not limited to the fields of air quality, water quality, solid and hazardous waste, underground storage tanks, toxic and hazardous substances, pesticides, and/or importation and exportation, counterfeiting, and application and illegal use of restricted or regulated chemicals in the state.

The ECU continues to vigorously prosecute crimes against the environment. This past year, the unit successfully prosecuted several individuals resulting in felony and misdemeanor convictions. The unit was successful in prosecuting the operator of a dry cleaner for four felony convictions. She was convicted of two hazardous waste violations, one count of water and one air violation. The unit also obtained a felony conviction for one count of disposal of electronic-waste. A felony conviction was also obtained against a demolition operator for two counts of illegal disposal of solid waste.

The Unit continues to foster relationships with other state, local and federal agencies. There are several cases being investigated for future prosecution. The ECU responds to calls for information, reports of dumping, requests for clean up of dumpsites, requests for appearance at meetings to disseminate information on the ECU, and how to report illegal activity.

The Department of Health (DOH) supports prosecution of environmental crimes in part to restore or prevent hazardous material and other releases to the environment. This program further underscores State's goal to have the responsible party pay to restore the environment and when applicable, and pay or reimburse the Environmental Response Revolving Fund (ERRF) and other applicable funds for expenditures incurred. DOH will assist with technical support to the Attorney General for investigations and prosecutions, where necessary and consistently with emergency response priorities.

3.6.2 Solid and Hazardous Waste Branch Oversight of County's Oil Recycling Program Continues

The ERRF has set aside \$200,000 for the management of used oil from Do-It-Yourself (DIY) operators. Maui, Kauai, and Hawai'i Counties are appropriated money to operate their respective DIY programs and to educate the public on proper used oil disposal options. Since the grant program started, Honolulu County has chosen not to apply for the grant money.

3.6.3 Hawai'i Energy Policy Forum Memorandum of Agreement between DOH and University of Hawai'i Continues

During FY 2005 the legislature appropriated \$100,000 of ERRF funds for use by the Hawaii Energy Policy Forum (Forum). In FY 2006, a Memorandum of Understanding between the Department of Health (DOH) and the University of Hawaii Social Sciences Public Policy Center was defined and implemented. In FY 2007, the funding was extended through June 30, 2008.

Funding for the Forum is used for the necessary planning to revise and begin efforts to implement the vision, goals, and recommendations of the Hawai'i Energy Policy Forum developed during the period 2002 – 2005, and, in particular, the results of its commissioned studies, 2003 energy summit, and its long term energy strategy. Accomplishments for FY 2007 were as follows:

Developed an Action Plan outline for major substantive areas

The Forum General Membership adopted the amendments to the Ten Point Plan and mission statement at its meeting on July 24, 2007.

Mission Statement (Revision 3: July 24, 2007)

The Hawaii Energy Policy Forum is a collaborative forum to achieve Hawaii's preferred energy future including:

- Sharing ideas and information,
- Recommending and advocating policies and initiatives, and
- Promoting civic action.

Preamble to the Ten Point Plan

Hawaii's preferred energy future requires a comprehensive integrated approach.

The Hawaii Energy Policy Forum's Ten Point Plan strives to:

- Promote energy security and sustainability
- Reduce energy consumption
- Enhance regulatory goals & protections
- Foster civic action & participation
- Diversify energy sources

The Ten Point Plan:

1. Expand Renewable Energy Opportunities
2. Promote Conservation and Energy Efficiency
3. Reduce Green House Gas Emissions in Hawaii
4. Foster Civic Action and Participation
5. Enhance Regulatory Goals and Protections
6. Encourage Culturally Appropriate and Sustainable Energy Planning
7. Improve Energy Efficiencies and Options in Transportation
8. Support research and development of alternative energy sources (hydrogen, wave energy, etc.)
9. Support sustainable development and use of biofuels
10. Ensure the security and reliability of energy supply and distribution

Established Action Plan Working Groups

The following are the current working groups with the responsibility to address the goals of the Ten Point Plan ("Action Plan") as follows:

- Renewables Working Group
- Hydrocarbons Future Working Group
- Energy Efficiency/Conservation Working Group
- Regulatory Reform Working Group
- Social and Cultural Impacts Working Group
- Communication and Outreach Working Group
- Greenhouse Gas Emissions Working Group

Developed and tracked legislative proposals

During FY 2007, as a result of the work in the Renewable Energy Working Group (Bioenergy Master Plan), Energy Efficiency Working Group (Energy Efficiency in the Transportation Sector), and Regulatory Reform Working Group (reorganization of the Public Utilities Commission and the Division of Consumer Advocacy), the Forum introduced and supported these and other legislation that support the Forum's Ten Point Plan.

HB 869 (Act 254), relating to a study to develop energy-efficient strategies in the transportation sector

HB 1003 (Act 253), relating to the development of a bioenergy master plan

HB 1004 and HB 1005 (Act 183 and 177), relating to restructuring of the state's regulatory agencies (PUC and DCA).

All of these proposals were adopted by the Legislature and signed into law by the Governor.

Provided studies in response to legislation adopted by the 2006 Legislature

Specifically, HCR 195, which requested recommendations from the Forum on incentives for the development of biofuel crops which resulted in the bioenergy master plan initiative (see the HEPF report at: <http://www.hawaiienergypolicy.hawaii.edu/pages/hcr195.html>), and Act 163, which directed the Forum to assess the State's participation in the Chicago Climate Exchange. The Forum commissioned a study by the University of Hawai'i's International Center for Climate and Society, and, after reviewing its findings, the Forum recommended against Hawai'i's participation in the Chicago Climate Exchange at this time (See the HEPF report at: <http://www.hawaiienergypolicy.hawaii.edu/pages/ccx.html>).

Meet with and engage the broader community, including business and labor

Efforts during the past period focused on internal governance and development of a consensual model for adopting the goals, actions, and legislative proposals.

Developed and implemented a communication/outreach plan to the following interests

- Outreach to Business and Government: Energy Efficiency Efforts.
- Outreach to Business and Agriculture: Biofuels Industry Development.
- Outreach to the Federal Sector: Briefing the Congressional Delegation.
- Outreach to Renewable Energy Industry: Federal Initiatives to Support Commercialization.
- Outreach to the Public: Hawai'i's Inconvenient Truth.

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**APPENDIX A
DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH ADMINISTRATION
LIST OF ELIGIBLE CERCLA SITES
AND
HAWAI’I STATE RESPONSE PROGRAM LIST OF SITES**

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HAWAII SITES ELIGIBLE UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA)

Chapter 128D, HRS, Environmental Response Law requires that the department publish a listing to identify Hawaii sites eligible for remedial action under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

There are currently three sites in Hawaii listed on EPA's CERCLA National Priority List (NPL) for cleanup. Schofield Barracks was de-listed on August 10, 2000.

<u>Island</u>	<u>Locality</u>	<u>Facility/Site Name</u>
Oahu	Kunia	Del Monte Oahu Plantation NPL Site
Oahu	Pearl Harbor	Naval Computer and Telecommunication Area Master Station (NCTAMS)
Oahu	Pearl Harbor	Pearl Harbor Naval Complex

Sites that may be eligible for possible listing under CERCLA are presented below and managed by the HEER Office Preliminary Assessment/Site Inspection (PA/SI) Program Remedial Project Managers (RPMs).

<u>Island</u>	<u>Locality</u>	<u>Facility/Site Name</u>
Hawaii	Hakalau	Mauna Kea Agribusiness at Hakalau/Hakalau Seed Dipping Plant
Hawaii	Keaau	Puna Sugar Co LLC at Keaau/Puna Sugar Mill
Hawaii	Paauhau	Hamakua Sugar Co at Paauhau/Paauhau Seed Dipping Plant
Hawaii	Paauhau	Hamakua Sugar Co at Paauhau/Paauhau Sugar Mill
Hawaii	Paauilo	Hamakua Sugar Co at Paauilo/Paauilo Seed Dipping Plant
Hawaii	Paauilo	Hamakua Sugar Co at Paauilo/Paauilo Sugar Mill
Hawaii	Pahala	Ka'u Agribusiness at Pahala/Kau Sugar Mill
Hawaii	Papaiko	Hamakua Sugar Co at Papaikou/Papaikou Sugar Mill
Hawaii	Waipunalei	Hamakua Sugar Co at Waipunalei/Waipunalei Seed Dipping Plant
Kauai	Koloa	McBryde Sugar Company/Koloa Sugar Mill
Kauai	Lawai	Lawai Valley Cannery
Kauai	Lihue	Lihue Plantation Co Ltd at Lihue/Lihue Sugar Plantation Combined Sites
Kauai	Wailua	Kauai Agricultural Research Center/Agent Orange and Pesticide Sites
Maui	Paia	Hawaiian Commercial and Sugar Co at Paia/Paia Sugar Mill
Oahu	Kunia	Oahu Plantation Poamoho Tract/Poamoho Rag Disposal Area

HAWAI’I STATE RESPONSE PROGRAM PRIORITY LIST OF SITES

Chapter 128D, HRS, Environmental Response Law, Section 7, HRS mandates that a State List of Sites be published annually listing the sites with potential or known hazardous substances or pollutants or contaminants.

Summary data presented in this Appendix for the Hawai’i State Response Program (State Response Program) includes all Hawai’i sites identified for non-emergency response actions during FY 2007. Sites are managed within the Hazard Evaluation and Emergency Response (HEER) Office under four program areas depending upon eligibility, funding, and level of responsible party participation as (1) State Listed Sites, (2) Hawai’i Brownfields Revitalization Sites (Brownfields), (3) Hawai’i Voluntary Response Program (VRP) Sites, and (4) EPA CERCLA Preliminary Assessment/Site Inspection (PA/SI) Sites. Over time a site may be managed within HEER Office under one or more program areas starting with the site assessment phase and if required by the State, through to cleanup completion.

Sites and activities managed by the military and funded by the Department of Defense/State Memorandum of Agreement are not included on the State Priority List.

The Hawai’i SRP sites managed within the HEER Office Site Discovery Assessment (SDAR) Section shows 402 sites with potential or know hazardous substance or petroleum contamination during FY 2007. HEER Office Remedial Project Managers (RPMs) completed 26 site related projects, including 22 site assessments, 3 removal actions, and 1 remedial action.

The following presents the number of sites, and completed FY 2007 assessment and cleanup projects for each of the four State Response Program areas.

	Number of Sites	Number of Completed Assessment Activities	Number of Completed Cleanup Activities
Hawai’i State Sites	348	17	3
Hawai’i Brownfields Sites	22	1	0
Hawai’i Voluntary Response Program Sites	17	0	1
EPA Preliminary Assessment Cooperative Agreement Program Sites	15	4	N/A
<hr/>			
TOTAL	402	22	4

APPENDIX A – LIST OF ELIGIBLE CERCLA SITES AND HAWAII STATE RESPONSE PROGRAM PRIORITY LIST OF SITES

Hawai'i State Response Program Priority List of Sites - 2007

<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Activity</u>	<u>Site Status</u>
Hawai'i	Haina	State Site	Hamakua Sugar Co at Haina/Haina Sugar Mill	No Further Action (NFA) Letter - Unrestricted Use	Closed Environmental Interest with Land Use Control
Hawai'i	Hamakua	State Site	Hamakua Area Agent Orange Application	File Review (low)	Ongoing Environmental Interest
Hawai'i	Hawi	State Site	Hawai'i Conference Foundation Hawi Property	Site Assessment	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Alamo Rent A Car/ Hilo International Airport	File Review	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Aloha Petroleum Hilo Bulk Plant	Site Assessment	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Bayside Chevron Service	No Further Action (NFA) Letter with Institutional Controls 07-269 AF	Closed Environmental Interest with Land Use Control
Hawai'i	Hilo	State Site	Big Island Asphalt Company, Inc.	Site Assessment	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Chevron Environmental Management Company/Tank 19	Site Assessment	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Chevron USA Products Company Marketing Hilo Terminal	File Review	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Equilon Enterprises LLC Hilo Terminal	Site Assessment	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	GTE Hawaiian Tel Kawaiiani Central Office	File Review SDAR Ranked Medium	Ongoing Environmental Interest

APPENDIX A – LIST OF ELIGIBLE CERCLA SITES AND HAWAII STATE RESPONSE PROGRAM PRIORITY LIST OF SITES

Hawai'i State Response Program Priority List of Sites - 2007

<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Activity</u>	<u>Site Status</u>
Hawai'i	Hilo	State Site	Haaheo Elementary School	O&M	Ongoing Environmental Interest with Land Use Control
Hawai'i	Hilo	State Site	Hatada Bakery	Site Assessment	Ongoing Environmental Interest with Land Use Control
Hawai'i	Hilo	State Site	Hawaii Air National Guard at Hilo/Hilo International Airport General Lyman Field	File Review	Ongoing Unresolved Environmental Interest
Hawai'i	Hilo	State Site	Hawaii Army National Guard at Hilo/Army Aviation Support Facility # 2 at Hilo Airport	File Review	Ongoing Unresolved Environmental Interest
Hawai'i	Hilo	State Site	Hawaii Army National Guard at Keaukaha/Keaukaha Military Reservation	File Review	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Hawaii Army National Guard at Keaukaha/Keaukaha Military Reservation Container Disposal	EP&R Case 20030124-1155 Referred to ISST	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Hawaii Cane Products Plant/Waiakea Pond	Ecological Risk Assessment proposal	Ongoing Environmental Interest with Land Use Control
Hawai'i	Hilo	State Site	Hawaii Electric Light Co (HELCO) Pipeline at Hualani Hilo	EP&R Case 20040113-1045 Referred to SDAR	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Hawaii Pest Control	Remedial	Ongoing Environmental Interest

APPENDIX A – LIST OF ELIGIBLE CERCLA SITES AND HAWAII STATE RESPONSE PROGRAM PRIORITY LIST OF SITES

Hawai'i State Response Program Priority List of Sites - 2007

<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Activity</u>	<u>Site Status</u>
Hawai'i	Hilo	State Site	Hilo Arsenic Spill Site	Review O&M Reports	Ongoing Environmental Interest with Land Use Control
Hawai'i	Hilo	State Site	Hilo Judiciary Center Project	Screening No Further Action (NFA) with Institutional Controls	Closed Environmental Interest with Land Use Control
Hawai'i	Hilo	State Site	Hilo Quality Washerette	Site Assessment	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Hilo Shopping Center	No Further Action (NFA) with no letter	No Further Environmental Interest-No Further Action
Hawai'i	Hilo	State Site	Hilo Wood Treating Inc	Referred to SHWB	Closed Environmental Interest Follow-up/Site Referred
Hawai'i	Hilo	State Site	HPM Building Supply dba Hawaii Wood Protection Inc	File Review	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Kamehameha School Bishop Estate 187 Silva Street Property	Phase II Report Review	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	KTA Davies Property	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action
Hawai'i	Hilo	State Site	Larry's Waiakea Chevron	Site Assessment	Ongoing Environmental Interest
Hawai'i	Hilo	State Site	Stationers Corporation of Hawaii	File Review	Ongoing Environmental Interest

APPENDIX A – LIST OF ELIGIBLE CERCLA SITES AND HAWAI’I STATE RESPONSE PROGRAM PRIORITY LIST OF SITES

Hawai`i State Response Program Priority List of Sites - 2007

<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Activity</u>	<u>Site Status</u>
Hawai`i	Hilo	State Site	Tesoro Hawaii Corporation Hilo Terminal/595 Kalanianaole Ave	Under consideration as Areawide Hilo Wharf site	Ongoing Environmental Interest
Hawai`i	Hilo	State Site	Tesoro Hawaii Corporation Hilo Terminal/607 Kalanianaole Ave	Under consideration as Areawide Hilo Wharf site	Ongoing Environmental Interest
Hawai`i	Hilo	State Site	Tesoro Hawaii Corporation Hilo Terminal/701 Kalanianaole Ave	File Review	Ongoing Unresolved Environmental Interest
Hawai`i	Hilo	State Site	University of Hawaii at Hilo Pacific Aquaculture and Ocean Resources Center	File Review	Ongoing Environmental Interest
Hawai`i	Hilo	State Site	University of Hawaii at Hilo/Auto Shop	File Review	Ongoing Environmental Interest
Hawai`i	Hilo	State Site	Wailoa Small Boat Harbor/Maintenance Dredging Project	Remedial	Ongoing Environmental Interest
Hawai`i	Hilo	State Site	Western Auto Store	File Review	Ongoing Environmental Interest
Hawai`i	Hilo	State Site	Young Bros. Ltd at Hilo/Hilo Harbor Pier 2	Under consideration as Areawide Hilo Wharf site	Ongoing Environmental Interest
Hawai`i	Honokaa	State Site	Hawai`i Department of Health - Honokaa	File Review (low)	Ongoing Environmental Interest
Hawai`i	Kailua-Kona	State Site	Alii Linen Service in Kailua-Kona/fka Snow White Linen	No Further Action (NFA) Letter - Unrestricted Use	Closed Environmental Interest with Land Use Control
Hawai`i	Kailua-Kona	State Site	Hawaii Electric Light Co (HELCO) Transformer 9269	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action

APPENDIX A – LIST OF ELIGIBLE CERCLA SITES AND HAWAI’I STATE RESPONSE PROGRAM PRIORITY LIST OF SITES

Hawai`i State Response Program Priority List of Sites - 2007

<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Activity</u>	<u>Site Status</u>
Hawai`i	Kailua-Kona	State Site	Hawaii Petroleum Kailua Kona Tosco Bulk Plant 0316	File Review (low)	Ongoing Unresolved Environmental Interest
Hawai`i	Kamuela	State Site	Kamuela Baseyard	File Review	Ongoing Environmental Interest
Hawai`i	Kapoho	State Site	University of Hawai`i Drilling Mud Toxicity Study/Kapoho Scientific Observation Holes #1 and #2	Administrative Closure	Closed Environmental Interest
Hawai`i	Kawaihae	State Site	ConocoPhillips Kawaihae Terminal	Well Abandonment	Ongoing Environmental Interest
Hawai`i	Keaau	State Site	Keaau Areawide Arsenic Assessment Project	Keaau Area Arsenic Data	Ongoing Environmental Interest
Hawai`i	Keaau	State Site	Keaau Hotel/Hospitality Group Project	Remedial Action Memo	Ongoing Environmental Interest with Land Use Control
Hawai`i	Keaau	State Site	Keaau Housing/118 Acre Site	Site Assessment	Ongoing Environmental Interest
Hawai`i	Keaau	State Site	Keaau Triangle Lot	Site Assessment	Ongoing Environmental Interest
Hawai`i	Keauhou	State Site	Waieli Drilling and Development/Keauhou Mechanics Yard	File Review	Ongoing Environmental Interest
Hawai`i	Kukaiiau	State Site	Kukaiiau Ranch	File Review	Ongoing Environmental Interest
Hawai`i	Mauna Kea	State Site	Canada France Hawaii Telescope Observatory	O&M	Ongoing Environmental Interest with Land Use Control

APPENDIX A – LIST OF ELIGIBLE CERCLA SITES AND HAWAI’I STATE RESPONSE PROGRAM PRIORITY LIST OF SITES

Hawai`i State Response Program Priority List of Sites - 2007

<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Activity</u>	<u>Site Status</u>
Hawai`i	Naalehu	State Site	95-5572 Mamalahoa Highway	No Further Action (NFA) Letter with Institutional Control 06-566 LY	Closed Environmental Interest with Land Use Control
Hawai`i	Naalehu	State Site	Waiohinu Hwy at Route 11 Mile Marker 66/Hawaii Petroleum Distributors Tanker Diesel Spill	File Review	Ongoing Environmental Interest
Hawai`i	Paauilo	State Site	Hamakua Sugar Co at Ookala/Ookala Fuel Station	File Review	Ongoing Environmental Interest
Hawai`i	Pahala	State Site	Ka'u Agribusiness at Pahala/Herbicide Mixing Plant	Remedial	Ongoing Environmental Interest
Hawai`i	Pepeekeo	State Site	Brewer Environmental Industries Pepeekeo Facility/Downslope of Former HCPC Maintenance Garage	Site Assessment	Ongoing Environmental Interest
Hawai`i	Pepeekeo	State Site	Hilo Coast Power Co at Pepeekeo/Pepeekeo Mill Black Oil Drum Sites	Site Assessment	Ongoing Environmental Interest
Hawai`i	Pepeekeo	State Site	Hilo Coast Power Co at Pepeekeo/Pepeekeo Mill Fuel Storage Tank	Site Assessment	Ongoing Environmental Interest
Hawai`i	South Kona	State Site	Kamehameha Schools Estoy Property	Site Assessment	Ongoing Environmental Interest
Hawai`i	Volcano	State Site	Hawai`i Volcanoes National Park/15,000-Gallon Aboveground Storage Tank Removal	Site Assessment	Ongoing Environmental Interest
Hawai`i	Waimea	State Site	Waimea Chevron Service Station	File Review	Ongoing Environmental Interest
Hawaii	Hakalau	PA/SI	Mauna Kea Agribusiness at Hakalau/Hakalau Seed Dipping Plant	Preliminary Assessment	Ongoing Environmental Interest

APPENDIX A – LIST OF ELIGIBLE CERCLA SITES AND HAWAI’I STATE RESPONSE
PROGRAM PRIORITY LIST OF SITES

Hawai`i State Response Program Priority List of Sites - 2007

<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Activity</u>	<u>Site Status</u>
Hawaii	Hilo	Brownfields	Pacific Aquaculture and Coastal Resources Center Brownfield/Targeted Site Assessment	Closed Targeted Site Assessment	Closed Environmental Interest
Hawaii	Keaau	Brownfields	Keaau Housing Brownfield/Affordable Housing	Brownfields Project Terminated/Records Consolidated with State Site "Keaau Housing 118 Acre Parcel"	Closed Environmental Interest
Hawaii	Keaau	PA/SI	Puna Sugar Co LLC at Keaau/Puna Sugar Mill	Preliminary Assessment - Consultation Memo & HR Scoring Recommended	Ongoing Environmental Interest
Hawaii	Ookala	Brownfields	Hamakua Sugar Co at Ookala Brownfield/Ookala Gym and Ball Park	Site Inspection	Ongoing Environmental Interest
Hawaii	Paauhau	PA/SI	Hamakua Sugar Co at Paauhau/Paauhau Seed Dipping Plant	Sampling of Opportunity	Ongoing Environmental Interest
Hawaii	Paauhau	PA/SI	Hamakua Sugar Co at Paauhau/Paauhau Sugar Mill	Preliminary Assessment	Ongoing Environmental Interest
Hawaii	Paauilo	PA/SI	Hamakua Sugar Co at Paauilo/Paauilo Seed Dipping Plant	Sampling of Opportunity	Ongoing Environmental Interest
Hawaii	Paauilo	PA/SI	Hamakua Sugar Co at Paauilo/Paauilo Sugar Mill	Preliminary Assessment	Ongoing Environmental Interest
Hawaii	Pahala	PA/SI	Ka'u Agribusiness at Pahala/Kau Sugar Mill	Preliminary Assessment /SI1	Ongoing Environmental Interest
Hawaii	Papaiko	PA/SI	Hamakua Sugar Co at Papaikou/Papaikou Sugar Mill	Preliminary Assessment	Ongoing Environmental Interest

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<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Activity</u>	<u>Site Status</u>
Hawaii	Waipunalei	PA/SI	Hamakua Sugar Co at Waipunalei/Waipunalei Seed Dipping Plant	Site Inspection Recommended	Ongoing Environmental Interest
Kauai	Barking Sands	State Site	Kauai Test Facility	Site Assessment	Ongoing Environmental Interest
Kauai	Ele'ele	State Site	Alexander & Baldwin, Inc. Kai Olina Development Site	Site Assessment	Ongoing Environmental Interest
Kauai	Kalaheo	State Site	Kalaheo Elementary School	Phase II	Ongoing Environmental Interest
Kauai	Kapaa	State Site	Leonard's Inc	Remedial	Ongoing Environmental Interest
Kauai	Kapaa	State Site	Waiakea Road Contaminated Soils	File Review	Ongoing Environmental Interest
Kauai	Kapaa	State Site	Wailua Homestead Wells/Vicinity of Wells 0421-01 and 0421-02	Remedial	Ongoing Environmental Interest
Kauai	Kekaha	State Site	Hawaii Army National Guard at Kekaha	File Review	Ongoing Environmental Interest
Kauai	Kekaha	State Site	Kekaha Sugar Co Ltd at Kekaha/Kekaha Mill & Seed Dip & Settling Pond	Phase III Recommended	Ongoing Environmental Interest
Kauai	Kekaha	State Site	Kekaha Sugar Co Ltd at Kekaha/Kekaha Sugar Field 108	File Review	Ongoing Unresolved Environmental Interest
Kauai	Kekaha	State Site	Kekaha Sugar Co Ltd at Kekaha/Wood Treatment & Herbicide Mixing Plant	Remedial Recommended	Ongoing Environmental Interest
Kauai	Koloa	PA/SI	McBryde Sugar Company/Koloa Sugar Mill	Preliminary Assessment / Site Inspection	Ongoing Environmental Interest

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Kauai	Lawai	PA/SI	Lawai Valley Cannery	Preliminary Assessment	Ongoing Environmental Interest
Kauai	Lihue	Brownfields	Anahola Project Faith Brownfield	Phase III Recommended	Ongoing Environmental Interest
Kauai	Lihue	State Site	Equilon Enterprises LLC Nawiliwili Fuel Distribution Terminal	Site Assessment	Ongoing Environmental Interest with Land Use Control
Kauai	Lihue	State Site	Gary's Chevron Service Station	File Review	Ongoing Environmental Interest Follow-up/Site Referred
Kauai	Lihue	State Site	Hanamaulu Service Center	SDAR Ranked No Action (NA)/Referred back to SHWB	No Further Environmental Interest-No Further Action
Kauai	Lihue	Voluntary Response Program	Honsador Lumber Corporation at Nawiliwili VRP	Remedial	Ongoing Environmental Interest
Kauai	Lihue	State Site	Island Self Storage LLC	No Further Action (NFA) Letter with Institutional Controls	Closed Environmental Interest with Land Use Control
Kauai	Lihue	State Site	Kauai Marriott Resort and Beach Club	File Review	Ongoing Unresolved Environmental Interest
Kauai	Lihue	State Site	Koamalu Plantation LLC Condominium	Remediation	Ongoing Environmental Interest
Kauai	Lihue	State Site	Lihue Airport/Aircraft Rescue and Fire Fighting Area	No Further Action (NFA) Letter with Institutional Controls	Closed Environmental Interest with Land Use Control

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Kauai	Lihue	PA/SI	Lihue Plantation Co Ltd at Lihue/Lihue Sugar Plantation Combined Sites	Ranking	Ongoing Environmental Interest
Kauai	Lihue	State Site	Nawiliwili Harbor/Nawiliwili Harbor Pier 1 Fuel Contamination	File Review (low)	Ongoing Environmental Interest
Kauai	Lihue	State Site	Nawiliwili Harbor/Nawiliwili Harbor Pier 2 Oil Spill	File Review	Ongoing Environmental Interest
Kauai	Lihue	State Site	Nawiliwili Harbor/Nawiliwili Harbor Pier 3 Bollard Foundation	File Review	Ongoing Environmental Interest
Kauai	Lihue	State Site	Nawiliwili Harbor/Nawiliwili Harbor Pier 3 Improvements	Site Assessment	Ongoing Environmental Interest
Kauai	Port Allen	State Site	Port Allen Shed Renovation	File Review	Ongoing Unresolved Environmental Interest
Kauai	Puhi	State Site	Brewer Chemical Corporation Puhi Facility	Remedial	Ongoing Environmental Interest
Kauai	Wailua	State Site	Coco Palms Sewer Pump Station	File Review	Ongoing Environmental Interest
Kauai	Wailua	PA/SI	Kauai Agricultural Research Center/Agent Orange and Pesticide Sites	Ranking	Ongoing Environmental Interest
Kauai	Waimea	State Site	Borden Meadow Gold Dairy	File Review	Ongoing Environmental Interest
Kauai	Waimea	State Site	Kokee Air Force Station	File Review	Ongoing Environmental Interest
Kauai	Waimea	Brownfields	West Kauai High Tech Training Facility Brownfield/Aupuni O Niihau	Site Assessment	Ongoing Environmental Interest

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Kure Atoll	Kure Atoll	State Site	Kure Atoll	File Review (high)	Ongoing Environmental Interest
Lanai	Lanai City	State Site	Manele Bay Golf Course	File Review	Ongoing Environmental Interest
Maui	Haiku	State Site	Maui Pesticide Storage Site/Removals from Kailua Rd	Complete	Closed Environmental Interest
Maui	Haiku	State Site	Maui Pesticide Storage Site/Removals from Pauwela Rd	File Review	Ongoing Unresolved Environmental Interest
Maui	Haliimaile	State Site	Maui Land and Pineapple at Haliimaile Road	File Review	Ongoing Environmental Interest
Maui	Kaanapali	State Site	Consolidated Metals Inc	File Review	Ongoing Unresolved Environmental Interest
Maui	Kahana	State Site	Maui Electric Co Inc (MECO) at Pohailani Maui Resort Transformer 7498	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action
Maui	Kahului	State Site	Alii Linen Service in Kahului/fka Snow White Linen	Site Assessment	Ongoing Environmental Interest
Maui	Kahului	State Site	Bird Builders	Addresses as Kanaha Pond Industrial West Site	Ongoing Environmental Interest
Maui	Kahului	State Site	Chevron USA Products Company Marketing Kahului Bulk Terminal	Site Assessment	Ongoing Environmental Interest
Maui	Kahului	State Site	Equilon Enterprises LLC Kahului Bulk Terminal	Site Assessment	Ongoing Environmental Interest

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Maui	Kahului	State Site	Fong Construction Inc	File Review	Ongoing Environmental Interest
Maui	Kahului	State Site	Hawaii Army National Guard at Kahului	File Review	Ongoing Environmental Interest
Maui	Kahului	State Site	Hawaii Wood Preserving Co	SHWB/EPA RCRA Lead	Closed Environmental Interest Follow-up/Site Referred
Maui	Kahului	State Site	Hobron Ave Area Kahului/Kahului Harbor	Site Assessment	Ongoing Environmental Interest
Maui	Kahului	State Site	Kanaha Pond/Industrial West Site	Remedial Recommended - ACOE has oversight	Ongoing Environmental Interest Follow-up/Site Referred
Maui	Kahului	State Site	Maui Business Park	File Review (low)	Ongoing Environmental Interest
Maui	Kahului	State Site	Maui Electric Co Inc Pole Mount Transformer 6930	Site Assessment	Ongoing Environmental Interest
Maui	Kahului	State Site	Maui Petroleum Inc Kahului Terminal/Kahului Harbor	Site Assessment	Ongoing Environmental Interest
Maui	Kahului	State Site	Rainbow Hauling	Addressed as Kanaha Pond Industrial West Site	Ongoing Environmental Interest
Maui	Kahului	State Site	Sears Auto Center at Kahului	File Review	Ongoing Environmental Interest
Maui	Kahului	State Site	Valley Isle Produce (VIP) Food Service Warehouse	Site Assessment	Ongoing Environmental Interest
Maui	Kihei	State Site	Selland Construction Inc Kihei Base Yard	File Review	Ongoing Environmental Interest

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Maui	Lahaina	State Site	Kapalua Land Company, Ltd./Kapalua Central Resort	Remedial	Ongoing Unresolved Environmental Interest
Maui	Lahaina	State Site	Maui Disposal Company Inc at Lahaina	File Review	Ongoing Environmental Interest
Maui	Lahaina	State Site	Maui Electric Co Inc Submersible Transformer No. 4726	Site Assessment	Ongoing Environmental Interest
Maui	Lahaina	State Site	Old Pioneer Mill/Puukolii Road Transformers	Site Assessment	Ongoing Environmental Interest
Maui	Lahaina	State Site	Old Pioneer Mill/Shaw Street Transformers	Site Assessment	Ongoing Environmental Interest
Maui	Lahaina	State Site	Pioneer Mill Co Ltd at Lahaina/Pioneer Sugar Mill	Phase II - UST Cleanup	Ongoing Environmental Interest
Maui	Maalaea	State Site	Maui Electric Co Inc (MECO) Maalaea Power Plant	Remedial	Ongoing Environmental Interest
Maui	Paia	PA/SI	Hawaiian Commercial and Sugar Co at Paia/Paia Sugar Mill	Awaiting EPA approval letter for Site Inspection report	Ongoing Environmental Interest
Maui	Pukalani	Voluntary Response Program	Maui Land and Pineapple VRP/Former Pesticide Mixing Storage Area	Site Assessment	Ongoing Environmental Interest
Maui	Puunene	State Site	Hawaiian Commercial and Sugar Co at Puunene/Puunene Sugar Mill	EP&R Case 20040113-0904 Referred to SDAR	Ongoing Environmental Interest
Maui	Puunene	State Site	Hawaiian Commercial and Sugar Co at Puunene/Puunene Sugar Mill Cane Hauler Shop	File Review	Ongoing Environmental Interest with Land Use Control

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Maui	Puunene	State Site	Maui Airport Puunene	File Review	Ongoing Environmental Interest
Maui	Puunene	State Site	Maui Wood Treating Company Ltd	File Review	Ongoing Environmental Interest
Maui	Wailuku	State Site	115 Waimalahuia Lane Clandestine Laboratory	No Further Action (NFA) Letter - Unrestricted Use 07-304-AF	No Further Environmental Interest-No Further Action
Maui	Wailuku	State Site	Hawaii Army National Guard at Wailuku/Organizational Maintenance Shop #3 (OMS #3)	File Review	Ongoing Environmental Interest
Maui	Wailuku	State Site	Hawaii Land and Farming Co Wailuku Development Site	File Review	Ongoing Environmental Interest
Maui	Wailuku	State Site	Maui Electric Co Inc (MECO) Substation 3 Transformer 7597	EP&R Case 20050412-1240 Referred to SDAR	Ongoing Environmental Interest
Maui	Wailuku	State Site	Valley Isle Motors	Unregulated UST	Ongoing Environmental Interest
Maui	Wailuku	State Site	Waiale Landfill	File Review (high)	Ongoing Environmental Interest
Maui	Wailuku	State Site	Y Hata Building	File Review	Ongoing Environmental Interest
Molokai	Hoolehua	State Site	Grace Pacific Corporation Manawainui Molokai Facility	File Review	Ongoing Environmental Interest
Molokai	Kanunakakai	State Site	Kalamaula Landfill RCRA - ISST Ranked NFA D		Closed Environmental Interest Follow-up/Site Referred

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Molokai	Kaunakakai	State Site	Hawaiian Eye Center	File Review (low)	Ongoing Unresolved Environmental Interest
Molokai	Kaunakakai	State Site	Island Petroleum Inc Kaunakakai Terminal	Site Assessment	Ongoing Environmental Interest
Molokai	Kaunakakai	State Site	Molokai Electric Co/Molokai Community Service Center	Assessment Recommended	Ongoing Environmental Interest
Molokai	Kaunakakai	State Site	Molokai Oil	File Review	Ongoing Unresolved Environmental Interest
Molokai	Kaunakakai	State Site	Rawlins' Chevron Service Station	Site Assessment	Ongoing Environmental Interest
Oahu	Aiea	Voluntary Response Program	Aiea Sugar Mill VRP/Lot 15 Aiea Sugar Mill	Remedial	Ongoing Environmental Interest
Oahu	Aiea	State Site	Grace Pacific Corporation at Halawa Valley Street	Review Annual Monitoring Reports	Ongoing Environmental Interest
Oahu	Aiea	State Site	Halawa Animal Quarantine Station	No Further Action (NFA) Letter with Institutional Control - (Tar-like Substance)	Closed Environmental Interest with Land Use Control
Oahu	Aiea	State Site	Halawa Corporation Yard	File Review (low)	Ongoing Unresolved Environmental Interest
Oahu	Aiea	State Site	Hawaii Agricultural Research Center/Aiea Stream Bed	Remedial	Ongoing Environmental Interest
Oahu	Aiea	State Site	Hawaii Baking Company	File Review	Ongoing Environmental Interest

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Oahu	Aiea	State Site	Hawaiian Electric Co (HECO) Transformer 52091	File Review	Ongoing Environmental Interest
Oahu	Aiea	State Site	Sears Facility 1578 at Pearlridge Mall/Hydraulic Hoist	Remedial	Ongoing Environmental Interest with Land Use Control
Oahu	Ewa Beach	State Site	East Kapolei Affordable Housing Project/Former Ewa Pesticide Mixing and Loading Area	Remedial	Ongoing Environmental Interest
Oahu	Ewa Beach	State Site	Oahu Sugar Co Ewa Sugar Mill	Remedial	Ongoing Environmental Interest
Oahu	Ewa Beach	State Site	Oahu Sugar Co Ewa Sugar Mill/Coral Waste Pit	File Review for Land Use Control	Ongoing Environmental Interest
Oahu	Ewa Beach	State Site	Oahu Sugar Co Ewa Sugar Mill/Fumigant Storage Area	File Review for Land Use Control	Ongoing Environmental Interest
Oahu	Ewa Beach	State Site	Pacific Concrete and Rock Ltd/Puu Palailai Quarry and Landfill	Site Assessment	Ongoing Environmental Interest
Oahu	Fort Shafter	State Site	Fort Shafter/Hydraulic Line Leak	SDAR Ranked No Further Action (NFA)	No Further Environmental Interest-No Further Action
Oahu	Haleiwa	State Site	Haleiwa Chevron (OK Chevron)	EP&R Case 20050630-1400 Referred to SDAR	Ongoing Environmental Interest
Oahu	Haleiwa	State Site	Waimea Valley Adventure Park	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	2147 Aoao St	File Review	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	3048 Waiialae Roger's Chevron	Ranking	Ongoing Environmental Interest
Oahu	Honolulu	State Site	373 N Nimitz Hwy	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	420-470 North Nimitz Highway	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	4338 Puu Panini Ave	EP&R Case 20040228-1130 Referred to SDAR	Ongoing Unresolved Environmental Interest
Oahu	Honolulu	State Site	580 North Nimitz Hwy	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	611 Middle Street Warehouse	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	861-869 North Nimitz Hwy	SDAR Ranked No Further Action (NFA) with Institutional Controls	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Airport Group International/Maintenance Yard	EP&R Case 20041215-1115 Referred to SDAR	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Ala Moana 2 Wastewater Pump Station (WWPS)	Screening No Further Action (NFA) with Institutional Controls	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Ala Wai Cove Condominium Apartments	Unregulated UST	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Aliamanu Military Reservation/Ama Neighborhood	Ranking	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	Allstate Industrial and Marine Cleaning Inc/Honolulu Harbor Pier 32	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Aloha 7-Eleven City Square	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Aloha Petroleum Nimitz Terminal/Honolulu Harbor Pier 29	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Aloha Tower Development Corporation/Honolulu Harbor Pier 8 to 14	To be Addressed with Honolulu Harbor Downtown Unit	Ongoing Environmental Interest
Oahu	Honolulu	Voluntary Response Program	Aloha/King LLC VRP	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Alsco American Linen Division	File Review (low)	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Alsco American Linen Division/10,000 Gallon Tank	No Further Action (NFA) Letter with Institutional Control	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	ARCO AM/PM 82102 (Texaco 61-100-0043)	Unregulated UST	Ongoing Environmental Interest
Oahu	Honolulu	State Site	ARCO AM/PM 82111 (Texaco 61-100-0045)	Unregulated UST	Ongoing Environmental Interest
Oahu	Honolulu	State Site	BHP Gasco/Iwilei Benzene Site	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	BHP Honolulu Terminal Facility/Honolulu Harbor Pier 29	Assessment Recommended	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	BMW Dealership	ISST Ranked NFA	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Board of Water Supply Pipeline Water Main Break	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Chevron Pipeline Release at Pier 35/Honolulu Harbor Pier 35	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Chevron USA Products Company Marketing Honolulu Terminal Marine	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Chevron USA Products Company Marketing Honolulu Transportation Terminal	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Chevron USA Products Company Marketing Kapalama Terminal/Northeast Parcel	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Chevron USA Products Company Marketing Kapalama Terminal/Northwest Parcel	Annual review of GW monitoring report	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Chevron USA Products Company Marketing Kapalama Terminal/South Chevron Fuel Farm	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	City Mill Home Improvement Center at Iwilei	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	Voluntary Response Program	Costco Wholesale at Iwilei VRP/Gas Station	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	Voluntary Response Program	Costco Wholesale at Iwilei VRP/Warehouse	Remedial	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	DIL Trust Property/aka Dillingham Corporation, Oahu Railway and Land	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Dole Food Company Hawaii Packing Plant at Iwilei	File Review (low)	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Domestic Commercial Fishing Village/Honolulu Harbor Pier 36 to 38	Removal	Ongoing Environmental Interest
Oahu	Honolulu	State Site	DOT BTU Storage Tanks at Pier 19/Honolulu Harbor Pier 19	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Equilon Enterprises LLC Honolulu Terminal	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Farrington High School	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Fort Ruger/Transformer 33	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Garlow Petroleum Inc	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Gasco Parcel 8 and 9 Gas Distribution Center/Honolulu Harbor Pier 38	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Gateway Park	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	George's Union Service #4573	No Further Action (NFA) Letter - Unrestricted Use 07-394-CM	No Further Environmental Interest-No Further Action
Oahu	Honolulu	State Site	GTE Hawaiian Tel Alakawa Street and Nimitz Highway Trench	Site Assessment	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	GTE Hawaiian Tel Base Yard	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hagadone Printing Company	No Further Action (NFA) Letter with Institutional Control	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Hakuyosha Hawaii Inc	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hall Mark Dry Cleaners	File Review (low)	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hart Street Wastewater Pump Station (WWPS) Nimitz Hwy Relief Sewer	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii Army National Guard at Fort Ruger/Former Firing Ranges	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii Convention Center	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii DLNR Moanalua Valley Parcel	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii Fueling Facilities Corporation Airport Facility/Honolulu International Airport	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii Fueling Facilities Corporation Lockheed Tank Yard Facility	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii Grain Corporation Fred L. Waldron Feed Mill	Site Assessment Recommended	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii Job Corps Center	File Review (low)	Ongoing Environmental Interest

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<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Activity</u>	<u>Site Status</u>
Oahu	Honolulu	State Site	Hawaii Meat Co Ltd	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii Metal Recycling Co/Honolulu Harbor Pier 35	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii Stevedores Inc/Honolulu Harbor Pier 26	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaii Transfer Company Ltd/Honolulu Harbor Pier 36	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaiian Bitumuls Paving and Precast Company at Sand Island	No Further Action (NFA) Letter with Institutional Control	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Hawaiian Electric Co (HECO) at Kapiolani Blvd and Chapin Lane/Soil Contamination	ISST Ranked Low	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Hawaiian Electric Co (HECO) Fuel Oil Pipeline	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaiian Electric Co (HECO) Honolulu Generating Station	File Review (low)	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaiian Electric Co (HECO) Iwilei Tank Yard	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaiian Electric Co (HECO) Makaloa Substation	File Review	Ongoing Unresolved Environmental Interest
Oahu	Honolulu	State Site	Hawaiian Electric Co (HECO) Mokuone Substation	No Further Action (NFA) Letter with Institutional Control for soils	Closed Environmental Interest with Land Use Control

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Oahu	Honolulu	State Site	Hawaiian Electric Co (HECO) Transformer 26127	File Review	Ongoing Unresolved Environmental Interest
Oahu	Honolulu	State Site	Hawaiian Flour Mill	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaiian Fluid Power Co	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Hawaiian Tug and Barge Corporation/Honolulu Harbor Pier 21	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	Voluntary Response Program	Home Depot at Iwilei VRP	O&M	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Honolulu Community College/Gas Station	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action
Oahu	Honolulu	State Site	Honolulu International Airport (HIA)	File Review (med)	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Honolulu Shipyard at Pier 40/Honolulu Harbor Pier 40	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Iolani School	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Island Movers Inc	File Review	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Iwilei Business Center Ltd	Site Assessment	Ongoing Environmental Interest

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Oahu	Honolulu	Brownfields	Iwilei Project Brownfield	Phase III Recommended	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Kaiser Permanente Moanalua Medical Center and Clinic	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Kakaako Makai Brownfield/Combined Units 1 and 3	Phase II	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Kakaako Pump Station	Phase II Recommended	Ongoing Environmental Interest
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 1	Phase II	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 10	Assessment Recommended	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 2	Phase II	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 3	Phase II	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 4	Phase II	Ongoing Environmental Interest with Land Use Control

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Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 5	Assessment Recommended	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 6	Remedial Recommended	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 7	Remedial Recommended	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 8	Remedial Recommended	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kakaako Makai Brownfield/Unit 9	Assessment Recommended	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Kalihi Texaco	Closed with possible future SDAR EI	Closed Environmental Interest
Oahu	Honolulu	State Site	Kamehameha School Kapalama Campus/Rifle Range	No Further Action (NFA) Letter with Institutional Control	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Kapalama Incinerator Off- Site Contamination	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Kewalo Incinerator/Ash Dump	Review for Land Use Control	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	Kewalo Incinerator/Landfill	Addressed as Kakaako Makai Brownfield Unit 8	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	Brownfields	Kuhio Park Terrace Project/Units D1 and D2	Phase II Recommended	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Lance Goya's Chevron Service	Removal	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Lockheed Air Terminal Inc/Honolulu International Airport	File Review (med)	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Longs Drugs Stores Warehouse	No Further Action (NFA) Letter with Institutional Control	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	Voluntary Response Program	Lowe's at Iwilei VRP/Brewer Industries Property	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	Voluntary Response Program	Lowe's at Iwilei VRP/Tosco Honolulu Bulk Terminal Property	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Matson Navigation Company/Pier 51	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	McCabe Hamilton & Renny Company Ltd/Honolulu Harbor Pier 1	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Meadow Gold Ice Cream Plant	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Mid Pacific Institute	Unregulated UST	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	Middle Street Intermodal Center	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Miyazaki Honolulu Airport Service Station	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Motor Supply, Limited	Monitoring Soil gas investigation	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Nestle USA	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Nimitz Highway from Sumner Street to Queen Street	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Pauley Petroleum/Honolulu Harbor Pier 32 to 33	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Polynesian Hospitality	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Pukoloa Wood Treating Site	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Puuwai Momi Housing Complex/Hawaii Mercury	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Queen's Medical Center/UST	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action
Oahu	Honolulu	State Site	Resource Recovery Ltd	Screening No Further Action (NFA)	Closed Environmental Interest Follow-up/Site Referred
Oahu	Honolulu	State Site	Richard's Chevron	Site Assessment	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	Sand Island Access Road Buried Drum Site	File Review	Ongoing Environmental Interest
Oahu	Honolulu	Brownfields	Sand Island State Recreation Area Brownfield	HEER Oversight complete/DLNR has oversight	Closed Environmental Interest
Oahu	Honolulu	State Site	Sand Island Waste Water Treatment Plant (WWTP)	Remedial Investigation	Ongoing Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	Sause Brothers	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Schuman Carriage	Ranking	Ongoing Unresolved Environmental Interest
Oahu	Honolulu	State Site	Sea Land Service	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Servco Pacific Inc at Auiki St	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Sierra Shell Service Station	File Review	Ongoing Environmental Interest
Oahu	Honolulu	Voluntary Response Program	Sprint PCS Call Center Parking Lot VRP	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Tesoro Hawaii Corporation Honolulu Terminal/Honolulu Harbor Pier 34	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Tesoro Hawaii Corporation Sand Island Terminal	File Review	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	Texaco Iwilei	Addressed as part of Honolulu Harbor Iwilei Unit	Ongoing Environmental Interest
Oahu	Honolulu	State Site	TOSCO Corporation Alii #3282	Site referred to SHWB via letter 07-243-AF	Closed Environmental Interest Follow-up/Site Referred
Oahu	Honolulu	State Site	Travel Plaza Transportation LLC	File Review (med)	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Uaukewai Diving Salvage & Fishing Inc	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	United Airlines/Honolulu International Airport Gate 1	EP&R Case 20051213-1653 Referred to SDAR	Ongoing Environmental Interest
Oahu	Honolulu	State Site	University of Hawaii at Manoa/Bilger Hall Mercury	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	University of Hawaii at Manoa/Frear Hall Construction Project	No Further Action (NFA) Letter with Institutional Controls	Closed Environmental Interest with Land Use Control
Oahu	Honolulu	State Site	University of Hawaii at Manoa/Hawaii Hall Renovation	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	University of Hawaii at Manoa/Stan Sheriff Special Events Arena	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	US Coast Guard Base Honolulu	File Review	Ongoing Environmental Interest
Oahu	Honolulu	State Site	US Postal Service Vehicle Maintenance Facility	Site Assessment	Ongoing Environmental Interest

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Oahu	Honolulu	State Site	Waikiki Beach Walk Resort	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action
Oahu	Honolulu	State Site	Waikiki Sand Villa II	File Review (low)	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Weyerhaeuser	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Yee Hop Building at 950 Maunakea St	Remedial	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Young Bros. Ltd at Honolulu/Honolulu Harbor Pier 24 to 29	Site Assessment	Ongoing Environmental Interest
Oahu	Honolulu	State Site	Young Bros. Ltd at Honolulu/Honolulu Harbor Pier 39 to 40	File Review	Ongoing Environmental Interest
Oahu	Kahuku	Voluntary Response Program	Kahuku Sugar Mill VRP	Remedial	Ongoing Environmental Interest
Oahu	Kailua	State Site	21 Malunui Ave	File Review	Ongoing Environmental Interest
Oahu	Kailua	State Site	Grace Pacific Corporation Upper Kapaa Facility	Site Assessment	Ongoing Environmental Interest Follow-up/Site Referred
Oahu	Kailua	State Site	GTE Hawaiian Tel Kailua Baseyard	O&M	Ongoing Environmental Interest with Land Use Control
Oahu	Kailua	State Site	Hawaii Youth Correctional Facility	Unregulated UST	Ongoing Environmental Interest

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Oahu	Kailua	State Site	Honolulu Skeet Club	Assessment	Ongoing Environmental Interest with Land Use Control
Oahu	Kailua	State Site	Kailua Corporation Yard	File Review (low)	Ongoing Environmental Interest
Oahu	Kailua	State Site	Kailua High School/Access Road	No Action Letter 2007-189-LY	No Further Environmental Interest-No Further Action
Oahu	Kailua	State Site	McKenna Used Car Sales	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action
Oahu	Kaneohe	State Site	Caesar's Cleaners/Kaneohe Facility Tetrachloroethylene Release	Site Assessment	Ongoing Environmental Interest
Oahu	Kaneohe	State Site	Flag lot adjacent to 45-130 Lilipuna Road	File Review	Ongoing Environmental Interest
Oahu	Kaneohe	State Site	Scott's Plating	File Review	Ongoing Unresolved Environmental Interest
Oahu	Kaneohe	Brownfields	US Coast Guard Omega Station Brownfield/Haiku Valley Rehabilitation Site	HEER oversight complete, environmental issues remain (See Comment 16).	Closed Environmental Interest
Oahu	Kapaa	State Site	Kapaa Corporation Yard	Site Assessment	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Aloha Petroleum Barbers Point Terminal/Barbers Point Harbor	File Review (med)	Ongoing Environmental Interest

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Oahu	Kapolei	State Site	Ameron Concrete Pipe Fabrication Facility	File Review	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Barbers Point Harbor/Barbers Point Barge Harbor Soil Contamination	File Review (med)	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Barbers Point Harbor/Barbers Point Harbor Expansion	File Review (med)	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Barbers Point Harbor/Lead Contaminated Soil	File Review	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Chevron Pipeline Release at Hanua Street and Komohana Street	File Review	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Chevron USA Products Company Hawaii Refinery/Marine Line Release	Site Assessment	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Chevron USA Products Company Hawaii Refinery/Tank Sludge	File Review (med)	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Con-Fab Hawaii Corporation	File Review	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Costco Kapolei	Phase I/Phase II	Ongoing Environmental Interest
Oahu	Kapolei	State Site	CoVan Warehouse	Site Assessment	Ongoing Environmental Interest
Oahu	Kapolei	Brownfields	East Kapolei Affordable Housing Brownfield/Agricultural Field	Phase II	Ongoing Environmental Interest
Oahu	Kapolei	State Site	East Kapolei Hoopili Development	PRP is Conducting Site Assessment	Closed Environmental Interest

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Oahu	Kapolei	State Site	Hanua St Southern Terminus	Draft RAM	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Hawaii DLNR Eva Feedlot Property	Site Assessment	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Hawaii Raceway Park	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action
Oahu	Kapolei	State Site	Hawaiian Dredging Construction Company Incorporated	File Review	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Hawaiian Electric Co (HECO) Pad Mount Transformer 45530	Site Assessment	Ongoing Environmental Interest
Oahu	Kapolei	Voluntary Response Program	Honolulu Wood Treating Company at Kapolei VRP	Site Assessment	Ongoing Environmental Interest
Oahu	Kapolei	Voluntary Response Program	Honsador Lumber Corporation at Kapolei VRP	Remedial	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Industrial Technology Kauhi St	File Review	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Kalaeloa Cogeneration Plant	File Review for Source	Ongoing Unresolved Environmental Interest
Oahu	Kapolei	Voluntary Response Program	Komohana Park Industrial Lots VRP	Removal/Remedial	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Leihano Proposed Kapolei Senior Village	Phase I/Phase II	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Marisco Ltd/Barbers Point Harbor	File Review	Ongoing Environmental Interest

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Oahu	Kapolei	State Site	Tesoro Hawaii Corporation Barge Loading Facility/Barbers Point Pier 5 Deep Draft Harbor	Site Assessment	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Tileco Inc	File Review (med)	Ongoing Environmental Interest
Oahu	Kapolei	State Site	Waimanalo Gulch Sanitary Landfill	File Review	Ongoing Environmental Interest
Oahu	Kunia	State Site	Central Oahu Wells	Admin File (look for Kunia Wells comparison)	Ongoing Environmental Interest
Oahu	Kunia	State Site	Del Monte Fresh Fruit Packing Facility	Site Assessment	Ongoing Environmental Interest
Oahu	Kunia	State Site	Del Monte Oahu Plantation	File Review	Ongoing Environmental Interest
Oahu	Kunia	State Site	Del Monte Oahu Plantation NPL Site	Remedial	Ongoing Environmental Interest
Oahu	Kunia	State Site	Hawaii Agricultural Research Center Kunia Substation	Site Assessment Recommended	Ongoing Environmental Interest
Oahu	Kunia	PA/SI	Oahu Plantation Poamoho Tract/Poamoho Rag Disposal Area	Preliminary Assessment 2 Abbreviated	Ongoing Environmental Interest
Oahu	Kunia	State Site	Oahu Sugar Co Ewa Sugar Mill/Kunia Staging Area	File Review	Ongoing Environmental Interest
Oahu	Kunia	State Site	Royal Kunia Phase II	Phase II	Ongoing Environmental Interest
Oahu	Makakilo	State Site	Grace Pacific Corporation Makakilo Quarry	File Review	Ongoing Environmental Interest

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Oahu	Mililani	State Site	American Savings Bank/200 Kahelu Avenue Diesel Leak	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action
Oahu	Mokuleia	State Site	Dillingham Ranch	Site Assessment	Ongoing Environmental Interest
Oahu	Nanakuli	State Site	Hakimo Road Hanson Property TMK 8-7-10-2	File Review	Ongoing Environmental Interest
Oahu	Nanakuli	State Site	Kaiser Cement Corp at Waianae Point	File Review (med)	Ongoing Environmental Interest
Oahu	Palolo	State Site	Palolo Elementary School	Removal	Ongoing Unresolved Environmental Interest
Oahu	Pearl City	State Site	Hawaii Army National Guard at Waiawa Gulch/Pearl City Industrial Park Installation 15080	Remedial Investigation	Ongoing Environmental Interest
Oahu	Pearl City	State Site	Pearl City Urban Garden Center	Site Assessment	Ongoing Environmental Interest with Land Use Control
Oahu	Pearl City	Brownfields	Waimano Home Campus Brownfield	Phase II Recommended	Ongoing Environmental Interest with Land Use Control
Oahu	Pearl City	State Site	Waterfront Manor	File Review (med)	Ongoing Environmental Interest
Oahu	Wahiawa	State Site	Schofield Barracks/Porter Site	Site Assessment	Ongoing Environmental Interest with Land Use Control

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Oahu	Wahiawa	State Site	TOSCO Corporation Flagship 76 #3128	No Further Action (NFA) Letter - Unrestricted Use	No Further Environmental Interest-No Further Action
Oahu	Wahiawa	State Site	Wheeler Army Airfield/Transformer WAAF-27	Site Assessment	Ongoing Environmental Interest
Oahu	Waialua	Voluntary Response Program	Waialua Sugar Co Inc VRP/Waialua Sugar Mill	Site Assessment	Ongoing Environmental Interest
Oahu	Waialua	State Site	Waialua Sugar Co Inc/Waialua Settling Ponds	Remedial Recommended	Ongoing Environmental Interest
Oahu	Waianae	State Site	Fong Property Kapiki Junk Yard	Under SHWB oversight	Closed Environmental Interest Follow- up/Site Referred
Oahu	Waianae	State Site	Hakimo Road Open Dump	File Review	Ongoing Environmental Interest
Oahu	Waianae	State Site	Hawaiian Electric Co (HECO) Mikilua Substation	File Review	Ongoing Environmental Interest
Oahu	Waianae	State Site	Industrial Technology Lualualei Homestead Rd	File Review (med)	Ongoing Environmental Interest
Oahu	Waiawa	State Site	Waiawa Ridge Development Project/Waiawa Ridge Development AOC	No Further Action (NFA) Letter - Unrestricted Use 07-111-JP	No Further Environmental Interest-No Further Action
Oahu	Waimanalo	State Site	Hawaiian Electric Co (HECO) Transformer 27728 (Vault 3032)	File Review	Ongoing Unresolved Environmental Interest
Oahu	Waimanalo	State Site	University of Hawaii Waimanalo Experimental Farm	Site Assessment	Ongoing Environmental Interest

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Oahu	Waimanalo	State Site	Waimanalo Areawide Groundwater Contamination	File Review	Ongoing Environmental Interest
Oahu	Waipahu	State Site	Hawthorne Pacific Corporation	File Review	Ongoing Environmental Interest with Land Use Control
Oahu	Waipahu	State Site	Royal Kunia Elementary School	File Review	Ongoing Unresolved Environmental Interest
Oahu	Waipahu	State Site	Waipahu St Dump Site	File Review	Ongoing Unresolved Environmental Interest
Oahu	Waipahu	Voluntary Response Program	Waipahu Sugar Mill VRP/Lot 32 Diesel and Solvent Plume	Letter of Completion with Institutional Controls #06-628-JP	Closed Environmental Interest with Land Use Control
Oahu	Waipahu	Voluntary Response Program	Waipahu Sugar Mill VRP/Mill Town Subdivision Diesel Plume	Remedial	Ongoing Environmental Interest
Oahu	Waipahu	State Site	Waipahu Wells	Ranking	Ongoing Unresolved Environmental Interest
Oahu	Waipio	State Site	Oahu Sugar Co./Waipio Peninsula Site	File Review	Ongoing Environmental Interest

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**APPENDIX B
DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH ADMINISTRATION
HAWAI'I STATE RESPONSE PROGRAM
RELEASE NOTIFICATION LOG**

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HAWAII STATE RESPONSE PROGRAM EMERGENCY RESPONSE RELEASE NOTIFICATION LOG

The Department of Health Hazard Evaluation and Emergency Response Office Emergency Response Release Notification Log is presented in this Appendix B. The list presents a listing of all chemical and petroleum release notifications received during the fiscal year. The Release Notification Log is sorted in order of Island, Locality, and the Facility/Site Name

The Hazardous Evaluation and Emergency Response (HEER) Office received a total of 507 notifications that included 247 oil sheen notifications for the historic Chevron's Pipeline at Waiiau CT10 area which are presented in the list as one Release Notification, 198 notifications for other the potential or actual releases of Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance(s) or petroleum related substances, and 63 notifications for the release of non-hazardous materials. HEER Office State On Scene Coordinators (SOSCs) performed direct oversight on 82 cases requiring on-site visits or off-scene coordination. Fifteen cases were referred to the HEER Office Site Discovery, Assessment and Remediation (SDAR) Section for follow-on non-emergency cleanup prioritization, 5 sewage spill notifications were referred to CWB, and 30 cases were referred to other agencies.

HEER Office Emergency Response Actions FY 2007

Notifications to HEER Office	Hazardous Substance/Oil Related Responses	Direct On-site or Off-site SOSC Oversight	Waiiau CT10 Area	Non-hazardous Materials Responses	Cases Referred to Other Agencies
507	198	82	247	63	30

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<u>Island</u>	<u>Locality</u>	<u>Facility/Site Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Media</u>
Hawaii	Captain Cook	Keopuka Place	20060908-0807	Lots of cars parked on Keopuka Place and at adjacent lot are leaking oil onto the asphalt and ground.	Soil
Hawaii	Hilo	187 Silva Street	20070420-1435	Caller reported free product in 2 wells on site: 12 inches and 2 inches apparent thickness.	Within Facility
Hawaii	Hilo	55 Mamo Street	20060726-1330	Complaint alleging intentional motor oil and gasoline spill on asphalt, then using ammonia to clean it up.	Asphalt
Hawaii	Hilo	888 Kalaniana`ole Avenue	20070108-1400	Heavy oil found in one of six boreholes.	Soil
Hawaii	Hilo	Hawaii Fueling Facilities Corp (HFFC) - Hilo	20070601-1537	Broken Seal to above ground fuel tank.	Asphalt
Hawaii	Hilo	HELCO Transformer No. 33999 Spill	20070504-1624	PCB free oil spill due to auto running into transformer mount pad. Approx 33 gallons released.	Grass & gravel
Hawaii	Hilo	Hilo Harbor	20070204-2030	Unknown sheen adjacent to Pier 1.	Ocean
Hawaii	Hilo	Hilo Harbor Pier 1 NCL America	20070201-0826	Material release from a hose attached to a filling station while in the process of refueling lifeboats.	Ocean
Hawaii	Hilo	Hilo Harbor Pier 1 NCL America	20070225-1135	The caller is reporting a release of material into the Hilo Harbor from an underwater hydraulic jack due to a ruptured line.	Ocean

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Hawaii	Hilo	Hilo Terminal 666 Kalaniana'ole Avenue	20070301-0102	Caller stated that there was an unknown sheen discovered on the water near a barge at their facility from unknown sources.	Ocean
Hawaii	Hilo	Hilo WWTP	20070113-0947	Discharge of 2 million Gallons of partial treated effluent.	Ocean
Hawaii	Hilo	Hilo Yard	20060911-0706	Liquefied petroleum truck in an accident with the potential to release 9500 gallons of petroleum.	Asphalt
Hawaii	Hilo	Non-Regulated UST Release	20060719-1226	Non-regulated UST release. 550-gallon boiler tank - stored diesel.	Soil
Hawaii	Hilo	USCG Radio Bay	20060905-1330	Emergency generator's secondary containment water valve left open, releasing up to 50 gallons of diesel.	Soil
Hawaii	Hilo Airport	Hilo Airport Aloha Airlines jet fuel spill	20070316-2223	Fuel nozzle broke during refueling of Aloha Airlines plane on the runway. Approximately 660 gal of jet fuel spilled. Approximately 400 gal went into the storm drain.	Storm Drain
Hawaii	Honokohau	Honokohau Harbor - Old Batteries	20060918-1355	Caller reporting a release of materials into Apra Harbor from old batteries due to a case of dumping.	Harbor

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Hawaii	Honokohau	Vessel Leak - Honokohau Marina	20070122-1458	Caller reported a vessel leaked material into the water. The boats bilge kicked on and discharged the material into the marina.	Ocean
Hawaii	Kailua Kona	South End Kona and Kailua Pier	20060707-1216	Caller reporting an unknown sheen sighting in the Pacific Ocean.	Ocean
Hawaii	Kailua-Kona	Hula Girl	20060804-0834	USCG stated a pleasure vessel is sinking due to unknown causes with a potential to release materials into the Pacific Ocean. Caller stated the DNR, Fire Dept and a USCG investigator are on the scene at this time.	Ocean
Hawaii	Kailua-Kona	Pualani Estates	20060907-1330	Alleged discharge of motor oil onto the ground and soil from various cars	Soil
Hawaii	Kawaihae	Young Brothers barge Maukana	20061226-1644	Pallet of car batteries fell during barge offload, spilling sulfuric acid on the deck.	Within Facility
Hawaii	Keaau	HELCO Substation: Puna Substation	20060703-0749	Leak from rust-decayed transformer housing.	Other
Hawaii	Naalehu	95-5572 Mamalahoa Highway	20060815-1518	Lead impacted soil encountered during UST removal and remedial excavations.	Soil

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Hawaii	Pahala	Pahala Nursery	20060814-1308	Petroleum contaminated soil encountered during excavation; no free product.	Soil
Hawaii	Pepeekeo	HELCO Pad mount Transformer No. 11036	20060703-0800	Rust-decayed transformer housing.	Concrete, Soil
Hawaii	West Kona	R/V broke anchor in Kiholo Bay	20060814-0659	25 foot pleasure vessel broke anchor but was safely towed; no loss of oil.	Within Facility
Kahoolawe	Kahoolawe	Kahoolawe Island	20070519-1145	A Pacific Helicopter Tours Inc. helicopter experienced hydraulic problems in flight and jettisoned a fuel pod. The pod hit the ground and broke open releasing its contents.	Soil
Kauai	Anahola	Unknown compressed gas cylinder - Anahola Beach area	20060807-1130	Unknown compressed gas cylinder; first reported to County Fire on 6/14/2006.	Coral
Kauai	Hanalei	R/V Camelot	20060828-1445	Report of a sunken vessel Camelot, 30-foot fiberglass sailing vessel; no sheen.	Ocean
Kauai	Kapaa	1665 Hoomaha Place	20070416-1058	Fishing lead weight factory in a residential area.	Air
Kauai	Kapaa	Kapaa Police Substation Envelope	20070318-1317	Unknown powder found inside a letter sent through the U.S. Postal System.	Air
Kauai	Lihue	Hanamaulu Service Center	20060727-1300	Person complaining of plants in his yard dying as a result of the service station next door.	Air

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Kauai	Lihue	Kauai Beach Villas	20070430-1220	White plastic drum that washed ashore. USCG would not respond. Kauai Fire HazMat responded and conducted a hazcat; pH = 7. HazMat ID = water.	Other
Kauai	Lihue	Lihue Airport Aircraft Rescue and Fire Fighting Training Area	20070222-1454	Removal of firefighting pit; gravel above a containment liner had 1200 mg/kg TPH diesel. No soil contamination beneath liner.	Soil
Kauai	Lihue	Lihue Plantation Sugar Mill Transformer Substation Area 4	20070216-1020	Transformer release.	Soil
Kauai	Lihue	Young Brothers, Ltd. Nawiliwili Harbor	20061003-1722	Liquid fertilizer spilled into the Nawiliwili Harbor from punctured container on dock.	Ocean
Kauai	Wailea	Wailea Unknown Sheen NRC 825695	20070206-1136	Unknown sheen discovered in Wailea Boat Harbor. Source unknown, Qty: unknown, Type: unknown.	Ocean
Kauai	Waimea	Waimea Canyon School, Kauai	20061114-1042	Received a call from Kauai District Health Office about a strong odor affecting some of the teachers and some of the students.	Air

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Kauai	Waimea	Kauai Transport Accident	20060824-1612	This is a non-release report. Caller reporting a potential material release from a tanker truck due to a vehicle accident. Caller states the truck was carrying propane (amount unknown).	None
Lanai	Kaumalapau Harbor	Oil Sheen Kaumalapau Harbor	20070322-1259	Unknown sheen in Kaumalapau Harbor. Appears to be petroleum product from bottom of ocean. Source unknown. 50 ft from dock.	Ocean
Maui	Haiku	MECO Pole-Mount Transformer No. 6488	20060911-1216	Rust-decayed transformer housing.	Soil
Maui	Kahului	Kahului Trucking & Storage Pipeline	20060919-1436	8 inch steel pipeline corrosion led to unknown quantity of molasses into harbor waters	Ocean
Maui	Kahului	MECO Pad-Mount Transformer	20070208-1512	Rusted transformer.	Soil
Maui	Kahului	MECO Pad-Mount Transformer	20070619-1514	On going release from a non PCB Transformer. Control measures are in place, transformer will be replaced when a replacement is available.	Soil
Maui	Kahului	MECO Pole-Mount Transformer No. 6930	20070108-1225	Leaking non-PCB pole-mount transformer.	Soil

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Maui	Kahului	MECO Transformers 13198 and 13199	20070320-1318	Written Notification for incident submitted to HEER from MECO on 03/20/2007.	Soil
Maui	Kahului	Pride of America - Norwegian Cruise Line	20060711-1643	Hydraulic oil release.	Ocean
Maui	Kahului	Pride of America - Norwegian Cruise Line	20060719-1556	Hydraulic oil release.	Ocean
Maui	Kahului	Pride of America - Norwegian Cruise Line	20061211-1258	Two (2) tablespoon Enviro 32 H oil leaked from hydraulic platform due to loose fittings. Phone # (808) 990-9914.	Harbor
Maui	Kahulului	Hydraulic Fuel Spill Kahului Harbor	20070122-1550	Seal jack pump failure. Sheen 10 ft X 10 ft. scattered.	Ocean
Maui	Kapalua	Pailolo Channel	20070325-0625	Sunken sailboat possible diesel release.	Ocean
Maui	Kihei	Kihei Union 76 Service (No.4655)	20070226-1400	Release from the removal of a hydraulic hoist.	Soil and groundwater
Maui	Lahaina	4695 Lower Honoapiilani Road	20061226-0630	Unknown Sheen.	Other
Maui	Lahaina	MECO submersible Transformer No. 4726	20061222-1412	Rust decayed transformer housing located below-grade vault released mineral oil.	Soil
Maui	Molokini	Molokini Island	20060929-1325	32' Kai Anela sank at mooring on Molokini Island.	Ocean
Maui	Puunene	Hawaiian Commercial & Sugar Company	20060725-1643	Spill onto pavement and soil.	Asphalt

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Maui	Puunene	Hawaiian Commercial & Sugar Company	20070206-1642	Boiler #3 Caustic Soda Soil Tank spill from double containment. Sulfamic acid is being used to neutralize.	
Maui	Puunene	Puunene Sugar Mill	20060830-0915	Driver drove away with nozzle still in vehicle.	Soil
Maui	Wailuku	MECO Wailuku oil spill 1 gal	20070224-1737	MECO Wailuku oil spill 1 gal.	Within Facility
Maui	Wailuku	Waimaluhia Maui Meth / Drug Lab Act 170	20070305-0950	Maui PD reports Drug lab cleanup.	Within Facility
Molokai	Kalaupapa Peninsula	Kalaupapa Peninsula	20070227-1604	Caller reporting a week ago his vessel was in a storm in San Diego. At that time, the USCG evacuated the crew and left the vessel adrift. The vessel was discovered washed on shore in Hawaii.	Nearshore
Molokai	Kaunakakai	Island Petroleum, Inc (Kaunakakai Terminal)	20070323-1512	Ruptured fuel hose.	Ocean
Oahu	Aiea	Aiea Fire Station	20070620-1430	A small sprayer containing Diesel was left at the Aiea Fire Station.	Concrete
Oahu	Aiea	Grace Pacific Corporation - Halawa Valley Street	20061212-1300	Release occurred while transferring Ecodiesel from a Unitek tanker tank onto an AST.	Asphalt
Oahu	Aiea	U.S. Army's Kahuku Combat Trail	20070615-1510	Dump truck overturned on the Combat Trail.	Soil
Oahu	Barbers Point	Barbers Point Harbor Pier 5 Unknown Sheen	20061102-1620	Unknown sheen incident, Barbers Point Harbor, Pier 5.	Ocean

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Oahu	Barbers Point	Navy Biosolids Treatment Facility	20060828-1300	Heavy smoke from fires affecting directly downwind facility, The Gas Company's SNG Plant and its employees.	Air
Oahu	Ford Island	Ford Island Pier Fox 10 #2 Diesel NOAA	20070328-1048	Backflow pipe leak, boom around boat. Happened at 0936. Was rainbow sheen, now opaque. NO NRC report was sent.	Ocean
Oahu	Haleiwa	61-263 Kamehameha Highway	20060905-1300	Allegations of runoff to Kawaihoa Beach, reported by caller.	Ocean
Oahu	Hickam	Hickam AFB Sewage Spill at Fort Kamehameha WWTP	20070403-2121	Caller reported a broken valve at Kam IV Treatment Plant resulted in a release of 1500 gal of sewage and 120 gal of sewage into the ocean. Signs were posted. Area impacted is restricted and not recreational and located on Hickam Air Force Base.	Soil
Oahu	Hickam AFB	Hickam Air Force Base - Air National Guard	20070412-1505	F-16 on ramp, 4 gals, 23.5 lbs., hydrazine released. Electric EPU fired, atomized in air.	Air
Oahu	Honolulu	Vector Control Branch	20061114-0930	Old pesticides stored at facility no longer wanted. Some are unknown, some are expired registration, and some are banned from use per FIFRA.	Drum or Other Container

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Oahu	Honolulu	2335 Rose Street	20070109-1105	Resident found 5-gallon bucket abandoned in front of property this morning. Bucket full of unknown liquid, dry grey paint drippings on sides and top, upright, not leaking, capped, no markings.	Soil
Oahu	Honolulu	138 Nawiliwili Street	20061227-1135	Allegations of source of unknown odor.	Air
Oahu	Honolulu	1611-A Paula Drive	20061128-1430	Unknown object, shaped like a basketball, approximately 2 feet in diameter, approximately 20 pounds	Other
Oahu	Honolulu	1720 Ala Moana Blvd	20070511-0845	Strange Chemical odors coming from neighbor's apt., causing nausea, dizziness, and headaches.	Air
Oahu	Honolulu	2057 Kalakaua	20061225-1454	Unknown odor reported to HazMat 1 that parking lot attendants had been smelling for days; Oxygen 20.9, LEL 0, Hydrogen Sulfide 0, carbon monoxide 0, methane 0.	Air
Oahu	Honolulu	2228A Booth Road	20070521-1420	Received a call from the U.S. Agriculture Department.	Other

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Oahu	Honolulu	2734 South King Street	20070111-1717	16 x 5-gallon containers, some labeled "Lacquer thinner" to be disposed of; Requested PENCO to conduct removal.	Drum or Other Container
Oahu	Honolulu	3085 Kalihi Street	20070105-1239	Complainant called complaining of toxic soil being dumped on lot.	Soil
Oahu	Honolulu	595 Ala Moana Black Oil Pipeline	20070629-1129	Consultant for DOT Highways reports bunker oil in storm drain and two pipes running through manhole when they were cleaning storm drain on 6/21 and 6/23.	Storm Drain
Oahu	Honolulu	858 Kuikahi Street	20061005-0820	Up to 6 used automobile batteries stacked on fence line between 858 Kuikahi and 852 Kuikahi.	Other
Oahu	Honolulu	99-164 Kalaloa St,	20060903-1655	Sewage spill, entered drain.	Storm Drain
Oahu	Honolulu	Ala Moana Small Boat Harbor NRC 818032	20061113-1010	NRC report only, no calls.	Ocean
Oahu	Honolulu	Ala Wai Boat Harbor NRC 812763	20060926-1700	Caller reporting an unknown sheen discovery in the Ala Wai Boat Harbor.	Harbor
Oahu	Honolulu	Ala Wai Boat Harbor Unknown Sheen - NRC 820387	20061208-1115	Unknown sheen on the Ocean Ala Wai Boat Harbor. Hotel guest noticed sheen on the water. The materials may be from a vessel at the harbor.	

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Oahu	Honolulu	Ala Wai Canal	20070314-1315	Sheen in the Ala Wai Canal fronting the Ala Wai Golf Course.	Ocean
Oahu	Honolulu	Ala Wai Canal White Substance NRC 828470	20070307-1157	Report of white substance on the water in the Ala Wai Canal. Material coming out of a storm drain.	Storm Drain
Oahu	Honolulu	Ala Wai Harbor	20060717-0720	Unknown sheen sighted in harbor.	Ocean
Oahu	Honolulu	Ala Wai Harbor - Delta Construction project	20070527-1411	Alleged violation of CWA.	Lake
Oahu	Honolulu	Ala Wai Small Boat Harbor unknown sheen	20070318-2229	Caller is reporting an unknown sheen in the Ala Wai small boat harbor.	Ocean
Oahu	Honolulu	American Airlines Hydraulic Fuel Spill Gate 15	20061228-1125	Hydraulic fuel release due to loader hydraulic hose burst. Approx 1/4 gallon reached water.	Asphalt/water
Oahu	Honolulu	Atlantis Submarine	20070312-1121	Discharge of diesel.	Ocean
Oahu	Honolulu	Bill M Diesel Fuel Spill	20060714-1024	Caller reporting a release of materials into Honolulu Harbor from vessel due to unknown causes.	Harbor
Oahu	Honolulu	Board of Water Supply Pipeline	20061002-0903	Water main breaks in street. Water flow bringing up subsurface oil contaminant.	Soil
Oahu	Honolulu	Bradley Pacific Aviation	20060717-0946	While fueling Jet " fuel was released from the fueling vent due to overfilling.	Asphalt

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Oahu	Honolulu	Coast Guard Lube Oil Spill	20070323-1226	Clean lube oil discharged during transfer from vessel due to valve on a pressurized pipe not being open causing a pinhole leak.	Ocean
Oahu	Honolulu	Coca-Cola Bottling Co. of Hawaii (Mapunapuna Street)	20061128-1645	Release of ammonia from a release valve on the bottle line.	Air
Oahu	Honolulu	Downtown Metro Harbor Unknown Sheen	20070405-0921	Sheen in Honolulu Harbor, Pier 13 & 14.	Ocean
Oahu	Honolulu	F/V Isabella T	20061209-1236	Non-contained deployment of sanitary waste.	Ocean
Oahu	Honolulu	F/V Leilani	20070212-0724	F/V Leilani on fire.	Ocean
Oahu	Honolulu	F/V Princess K	20060815-1030	F/V headed to Christmas Island when rudder broke 10 miles out of Oahu. F/V Adramytium was towing it in when the towline broke and Princess K ran aground at 1010. Freed off the reef at 1708; towed to Kewalo Basin. No oil release.	Ocean
Oahu	Honolulu	Hale Pua Nui UST Removal	20061020-1430	Tank cleaning and removal conducted on 10/20/06. Contaminated soil discovered. Release date unknown.	Soil

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Oahu	Honolulu	Hausten Ditch	20061026-1705	Resident reports foul chemical odor from canal vicinity of Hausten and Date Streets.	Storm Drain
Oahu	Honolulu	Hawaii Kai Marina, spill	20061111-0748	Large Gasoline sheen observed in marina.	Ocean
Oahu	Honolulu	Hawaiian Air, fuel spill	20070524-1538	Due to overfill Jet A was released onto the tarmac.	Asphalt
Oahu	Honolulu	Hawaiian Airlines	20061226-0912	Discharge of Jet A fuel.	Concrete
Oahu	Honolulu	Hawaiian Airlines	20070314-1317	Broken Hydraulic Hose, release of approx. 25 gals.	Asphalt
Oahu	Honolulu	Hawaiian Airlines	20070509-0743	Fuel spilled in two spots. Fuel at parked area, second area when plane started to leave then stopped. Total of 50 gals., on concrete, no waterways or drains.	Concrete
Oahu	Honolulu	Hawaiian Tug & Barge Corporation	20070521-0853	Loss of fuel during channel crossing.	Ocean
Oahu	Honolulu	HECO Facility: Ward Avenue Complex	20070404-1726	Hazmat 1 reported to us a sulfuric acid leak at the HECO Ward Substation.	Concrete
Oahu	Honolulu	HECO Pole-Mount Transformer	20070403-1350	Motor vehicle accident.	Soil
Oahu	Honolulu	Honolulu Airport South Ramp C	20070516-1241	Release of JP-4 due to overfill of fuel in wing. Clean up completed.	Soil
Oahu	Honolulu	Honolulu Harbor	20061226-1007	Unknown Sheen.	Ocean

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Oahu	Honolulu	HONOLULU HARBOR PIER 14 Unknown Sheen NRC 825171	20070131-1015	Unknown sheen reported. USCG investigated - good Samaritan put sorbent pads in water.	Ocean
Oahu	Honolulu	Honolulu Harbor Pier 24	20070619-0633	Unknown sheen reported to Aloha Tower.	Ocean
Oahu	Honolulu	Honolulu Harbor Piers 15/16 to 21 (on water)	20070110-0737	Harbor Patrol Police reported oil sheen was observed on water at 7:20 a.m. The sheen size was estimated at 50' x 20'.	Ocean
Oahu	Honolulu	Honolulu Harbor Sheen 831006	20070401-0940	Caller is reporting an unknown sheen in Honolulu Harbor.	Ocean
Oahu	Honolulu	Honolulu Harbor Unknown Sheen NRC 838363	20070612-1011	Caller reporting an unknown sheen from unknown source. Amount unknown. Sheen starts at the fishing fleet pier 17 or 17 and continues down to pier 22.	Ocean
Oahu	Honolulu	Honolulu International Airport Gate 11	20060817-1653	Release of materials onto the ground from a Northwest Airlines aircraft due to Bradley Aviation operator error.	Concrete
Oahu	Honolulu	Honolulu International Airport Gate 54	20060828-0756	Jet fuel released; no fuel entered any storm drain.	Concrete
Oahu	Honolulu	Honolulu International Airport Swiss Port Corporation	20070420-1141	Broken hydraulic line.	Asphalt

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Oahu	Honolulu	Honolulu International Airport, between gate 57 & 58	20061102-2203	Leak was discovered when truck pulled up to Burger King at Airport to make delivery. High pressure in reefer unit may have caused oil leak in trailer. No phone call received.	Concrete
Oahu	Honolulu	Honolulu International Airport, between gate 57 & 58	20061102-2325	Caller reporting discharge of motor oil from refrigerated tractor-trailer truck due to malfunction with motor in refrigerated trailer.	Asphalt
Oahu	Honolulu	Horizon Lines	20060916-1300	Release of 4 Gallons of Heptane.	Air
Oahu	Honolulu	Kewalo Basin Harbor NRC 810136	20060905-0751	Caller reported an unknown sheen.	Ocean
Oahu	Honolulu	Kewalo Basin oil sheen reported	20060817-0945	Discharge of oily bilge water.	Ocean
Oahu	Honolulu	Kewalo Basin Unknown Sheen 4/24/07	20070424-0933	Unknown sheen reported. Source unknown.	Ocean
Oahu	Honolulu	Kewalo Basin Unknown Sheen 823316	20070110-1014	Caller stated an unknown sheen was discovered by one of their drivers in the Kewalo Basin from unknown sources.	Ocean
Oahu	Honolulu	Kewalo Fishing Enterprise	20060925-0840	Diesel release.	Ocean
Oahu	Honolulu	Koko Crater Trail	20061103-1045	Thief chopped down telephone pole causing transformer to be broken on the ground during impact, causing oil to be released.	Soil

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Oahu	Honolulu	M/V Imua Diesel Spill	20070223-1040	CG pollution response noticed owner of vessel putting Dawn detergent onto a sheen in water due to a transfer failure.	Ocean
Oahu	Honolulu	M/V Kamome	20070202-0829	M/V Kamome hard aground on the reef at Maunalua Bay.	Ocean
Oahu	Honolulu	M/V Nadu Oil Discharged	20070208-1317	M/V Nadu K-2 discharged unknown oil into the Ala Wai Harbor.	Ocean
Oahu	Honolulu	M/V Nalani	20061112-1343	Release of approx. 150 Gals of diesel fuel into Honolulu Harbor. Due to a possible cracked fuel tank.	Ocean
Oahu	Honolulu	M/V Nalani	20070307-0834	During transfer of fresh water from tug, oil started coming out from tug into water. Release secured.	Ocean
Oahu	Honolulu	M/V Novazzano	20070322-1450	Hole in Thermo Tank releasing approx. 13,000 Gals of Shell Therma Oil B. Discharge occurred approx. 1000 miles SSW of Honolulu.	Ocean
Oahu	Honolulu	M/V Tong Cheng	20070221-1110	Sheen occurred during run off from ship deck due to heavy rain. Sheen size: 2' x 2'.	Ocean
Oahu	Honolulu	Manele Street	20060830-1430	Citizen reported seeing needle with syringe beside his black Honda.	
Oahu	Honolulu	Matson Navigation Company	20070205-0829	Discharge of 50 gallons diesel.	Ocean

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Oahu	Honolulu	Matson Navigation Pier 29	20070608-1133	Caller stated that they spotted a sheen on the water near their vessel. Source unknown. They checked their tanks and did not find anything.	Ocean
Oahu	Honolulu	Moku Ahi	20060705-0840	Report of paint being released from the vessel.	Ocean
Oahu	Honolulu	National Industrial Tire and Recapping of Hawaii	20061211-1340	Blue noxious smoke causing complainants to have difficulty breathing.	Air
Oahu	Honolulu	Near Diamond Head and Honolulu Harbor	20070122-1234	Caller reported unknown huge black chunks of oil and a rainbow sheen sighted in the harbor. Spill is about a 6 slip lengths starting around slip 504.	Ocean
Oahu	Honolulu	NOAA Ship Sette	20070326-0627	3-55 gallon drums containing diesel and gasoline fell overboard while underway from Honolulu to Kauai, somewhere mid channel.	Ocean
Oahu	Honolulu	NOAA Ship Sette	20070328-0646	Fuel discharges overboard	Ocean
Oahu	Honolulu	Northwest Airlines, Inc.	20070323-1545	Release of material from the surge tank on the aircraft due to expansion of the fuel from the heat.	Asphalt
Oahu	Honolulu	Norwegian Cruise Line Pride of America	20060906-0703	Emergency situation on ship that they have to pump their bilges without going through the oily separator.	Ocean

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Oahu	Honolulu	Norwegian Cruise Line Pride of America	20061216-1115	Release of soapy waters into Honolulu Harbor.	Ocean
Oahu	Honolulu	Pacific Air Cargo, hydraulic oil spill	20070613-1035	Due to overfilling JP-8 Asphalt was released on to tarmac.	
Oahu	Honolulu	Pacific Laurel Sinking	20060807-0943	Vessel sinking due to crack in bow.	Ocean
Oahu	Honolulu	Pacific Ocean	20070424-1131	Dumping of dark liquid into Pacific Ocean 20.53 N 164.57 W.	Ocean
Oahu	Honolulu	Pan Am II Vessel Dumping Oil	20070628-1705	Reporting party is reporting that a captain of the vessel is dumping material into the environment.	Ocean
Oahu	Honolulu	Pier 13	20070418-0932	Motor Oil.	Ocean
Oahu	Honolulu	Pier 2 Honolulu Harbor	20070624-1200	Report of workers getting bitten by insects or mites near Pride of Aloha.	Other
Oahu	Honolulu	Pier 20, Honolulu Harbor	20060925-1300	Complaint of dust from a sand operations believed to be conducted by BNC Trucking and overseen by Ameron or Hawaiian Cement.	Air
Oahu	Honolulu	Pier 34-36 Honolulu Harbor, Oil Sheen	20070327-1000	Reported stated sheen fronting piers 35-36.	Ocean
Oahu	Honolulu	Pier 51 Honolulu Harbor Hydraulic Oil Spill	20070118-1251	Material discharged due to a crane hose failure on Waialeale barge. 10 gallons of vegetable based hydraulic oil discharged on deck and .5 gallons discharged into water.	Ocean

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Oahu	Honolulu	Pier 51 Honolulu Harbor, oil DFM incident	20070325-1049	Terchophylene inside of container.	Air
Oahu	Honolulu	R/V Kaimikai-okalaloa	20060927-1055	MJ/V crane had a broken hydraulic hose that caused a hydraulic oil release.	Ocean
Oahu	Honolulu	Richard's Chevron	20061026-0855	While excavating the Sand & Grease Trap, North and South Service Bay areas oil was discovered in the soil.	Soil
Oahu	Honolulu	Sand Island, silvery sheen sighting	20060809-0647	Diesel Release from and open valve onboard the ship Jarvis.	Ocean
Oahu	Honolulu	Sause Brothers Release Honolulu Harbor Pier 27	20070331-1635	Caller is reporting a release of materials into Honolulu Harbor from a vessel due to operation error.	Ocean
Oahu	Honolulu	Slip 505 Ala Wai Dock	20070322-1610	Material release from vessel due to leaking cans on board.	Ocean
Oahu	Honolulu	Smith Maritime - Vessel Namoku	20070614-1152	Caller reported a pint of material spilled into the water due to a leak in the eng room. When loading the barge the puddle ran fwd & spilled from scuppers that were not plugged.	Ocean

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Oahu	Honolulu	Tosco Honolulu Bulk Distribution Terminal	20070131-1005	During excavation, one of two parallel-capped 12-inch pipelines approximately 250 feet long discovered containing bunker oil. Other line will be tapped prior to excavation.	Soil
Oahu	Honolulu	United Airlines Reservations Center	20061001-0837	Noxious odor - believed to be from the sewer system or grease trap that is affecting employees. Management has told employees the cause is an engineering issue that cannot be resolved.	Air
Oahu	Honolulu	Unknown Sheen Ala Wai Boat Harbor	20070511-1038	Alleged sheen Ala Wai Canal.	Ocean
Oahu	Honolulu	Unknown Sheen Kewalo Basin	20061227-1410	Caller reports that oil was discovered in the water from an unknown source. Approximately 3 gallons of thick oil with no sheen.	Harbor
Oahu	Honolulu	Unknown Sheen NRC 829884	20070321-1153	Unknown sheen coming from area around 2 vessels. One vessel is unknown and the other is M/V Kealailani.	Ocean
Oahu	Honolulu	USCG Base Honolulu	20070208-1316	Motor oil spill.	Ocean
Oahu	Honolulu	Young Brothers, Ltd.	20070521-1035	Diesel release.	Ocean

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Oahu	Honolulu Harbor	Honolulu Harbor Unknown Sheen 8/21/06	20060813-1316	Caller reporting a release of materials into the Honolulu Harbor.	Harbor
Oahu	Honolulu Harbor	Honolulu Harbor Unknown Sheen NRC 825573	20070205-1041	Unknown sheen discovered in Honolulu Harbor.	Ocean
Oahu	Honolulu Harbor	Unknown Oil Spill Pier 41 Honolulu Harbor	20060720-1223	Harbor Traffic Controller called in to report oil spill at Pier 41.	Harbor
Oahu	Kahaluu	Koolau Center	20070104-1450	55 gal of waste oil overflowing onto the asphalt and into the stream.	Stream
Oahu	Kahuku	Unknown cylinder Kahuku HPD	20070519-1033	Unknown compressed cylinder washed ashore at Malaekahana Beach Park. Transported to the Kahuku HPD Station.	Air
Oahu	Kailua	567-F Kawailoa Street	20070121-1233	Sewage spill from uphill residence lot going downhill onto 129 Alala Street lot.	Soil
Oahu	Kailua	579 Kaneapu Place	20070425-1530	55-gallon corroded metal drum on property.	Within Facility
Oahu	Kailua	C&C Facility Maintenance Kapaa Quarry Rd. Baseyard	20060802-1140	Received call from C&C Facility Maintenance. While clearing vegetation at their Kapaa Quarry Road base yard transformers were discovered. Discharge of transformer oil occurred.	Soil
Oahu	Kailua	Kailua WWTP	20070120-2115	Sewage release from #3 final clarifier pump failure.	Within Facility, outside

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Oahu	Kailua	Kama'iiana Kids Preschool	20061213-1500	Complainant concerned about construction being done at the school.	Air
Oahu	Kailua	Kyoki Engineers LLC	20060919-1309	Potential to release of radium 226 from a gauge; no leak occurred - Noise and Radiation on scene.	Other
Oahu	Kailua	St. Anthony School Unknown White Powder	20070517-1115	Unknown White powder found in classroom.	Within Facility
Oahu	Kalaeloa	Pier 5 Barbers Point	20061222-0204	While naphtha was being loaded onto a barge, material started to discharge into the environment.	Other
Oahu	Kaneohe	Kaneohe Bay Boat Infestation	20070119-0959	40-foot fishing vessel has a bug infestation. Tent placed over boat and sprayed poison into tent; poison was everywhere.	Air
Oahu	Kaneohe	Kaneohe Bay sheen	20061009-0637	Mechanical breakdown of Jet ski.	Ocean
Oahu	Kaneohe	Kaneohe Bay sheen	20061012-0709	Over turned boat in waterway.	Ocean
Oahu	Kapolei	91-1040 Lehulehu	20060703-0820	Previous tenants left paint and other paint-related waste on property.	Within Facility
Oahu	Kapolei	Barbers Point Harbor Pier 3	20060907-1644	Notice received. Chronic.	Air
Oahu	Kapolei	Barbers Point Harbor Pier 3	20061023-1322	Heat Exchanger Malfunction caused NOX exceeded from flare.	Air

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Oahu	Kapolei	Barbers Point Harbor Pier 3	20061024-1406	Due to a power outage, releases of nitrogen dioxide and sulfur dioxide from the refinery flare stack.	Air
Oahu	Kapolei	Barbers Point Harbor Pier 3	20061025-0534	Caller is reporting a material release from a 10 or 20-inch crude line.	Ocean
Oahu	Kapolei	Barbers Point Harbor Pier 3	20070209-1249	Unknown sheen appears to be gasoline; Hui Manu is loading gasoline and jet fuel for Tesoro.	Ocean
Oahu	Kapolei	Chevron USA Products Co., Hawaii Refinery	20060926-1527	Process upset in cogen plant resulting in alkyl plant going down. Probability of exceeding 10 pounds of Nox.	Air
Oahu	Kapolei	Chevron USA Products Co., Hawaii Refinery	20061018-1545	Potential exceedence of sulfur trioxide during start-up of acid plant when feed was introduced. Light and variable winds, SE direction.	Air
Oahu	Kapolei	Chevron USA Products Co., Hawaii Refinery	20061226-1405	Underground 4 inch diesel rundown line that comes from crude unit going to tank farm has been discovered to be leaking; vacuum truck is on scene	Coral
Oahu	Kapolei	Chevron USA Products Co., Hawaii Refinery	20070202-1030	Due to HECO's limited power capacity, Chevron has a refinery-wide shutdown. So far, Nox has been exceeded.	Air

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Oahu	Kapolei	Chevron USA Products Co., Hawaii Refinery	20070206-1015	Broken Bleeder Valve causing 35 Barrels to be released onto the ground.	Soil
Oahu	Kapolei	Chevron USA Products Co., Hawaii Refinery	20070226-1317	Caller reported a leak in a pipeline in the tank farm of aviation fuel resulting from a transfer of fuel last night. The facility noticed a discrepancy in the gauge readings. They are excavating around the leak. Potentially greater than 25gal.	Air
Oahu	Kapolei	Chevron USA Products Co., Hawaii Refinery, Ten-Acre Site	20060726-1242	Leak from 30-inch crude line.	Soil
Oahu	Kapolei	Flare Stack Release	20060908-1700	SCC Unit Malfunction causing release of Nitrate Oxide release.	Air
Oahu	Kapolei	Flare Stack Release	20060912-0714	Caustic washer malfunction.	Air
Oahu	Kapolei	Flare Stack Release	20061020-1534	Release of NOX due to a faulty pressure relief valve.	Air
Oahu	Kapolei	HECO - Campbell Industrial Park Substation	20070625-0700	Equipment failure.	Soil
Oahu	Kapolei	HECO Generating Station: Kahe Power Plant	20061025-2200	Hose between drum and pump was disconnected. Liquid in the hose spilled out. Liquid is waste boiler cleaning solution.	Asphalt
Oahu	Kapolei	HECO Pad-mount Transformer 45530	20070108-1224	Less than a gallon of oil release due to rust-decayed transformer housing.	Concrete, Soil

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Oahu	Kapolei	Helo Port, Pier 35, Campbell Industrial Park	20061219-1529	Allegations of company shipping hazardous chemicals by planes and barges and dumping it into fertilizer and selling it to the public.	Other
Oahu	Kapolei	Hui Mana Barge, Pier 5 Barbers Point Harbor, diesel spill	20060911-1341	Discharge of oily bilge Ocean water.	
Oahu	Kapolei	Kapolei Police Station	20070204-1142	While fueling the large Soil Storage tanks gasoline was accidentally released onto the containment area.	
Oahu	Kapolei	Pacific Ocean Oil Sheen	20070212-0723	Unknown Sheen.	Ocean
Oahu	Kapolei	Pier 5 Barbers Point Harbor	20060911-1340	Caller reporting a spill of bilge slops from a slop tank on a tugboat due to overflow from the slop tank through the vent.	Harbor
Oahu	Kewalo Basin	Kewalo Basin "Leilani"	20061106-1539	Caller reporting a spill of materials in Kewalo Basin from vessel due to operator error.	Ocean
Oahu	Makaha	84-1039 Maiola Street	20070110-1458	Allegation of 2 25,000 - 30,000 gallon former USTs buried in back of property, by the second retaining wall farthest from the house; excavator dug approx 30 feet wide, 25 feet long and 15 feet deep times two.	None

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Oahu	Makakilo	HECO Pad-mount Transformer No. 49963	20061005-1441	Release of up to 55 gallons of non-PCB mineral oil to soil adjacent to and under the transformer concrete pad as a result of rust-decayed transformer housing.	Soil
Oahu	Mililani	Diesel Leak at 200 Kahelu Avenue	20060731-0000	Intermittent pinhole leak in the fuel line that is connected to an emergency generator.	Soil
Oahu	Mililani	Mililani Mauka Elementary School	20061213-1040	7 children were reported experiencing nausea with one experiencing burning sensation around lips and nose. They were sent to Wahiawa General for evaluation.	Air
Oahu	Pearl City	Jamba Juice	20070514-0745	Release of approx. 1 gal of Organic Peroxide within the facility causing all workers to be evacuated.	Within Facility
Oahu	Pearl City	1316 Noelani Place	20070624-1342	Complainant alleges that neighbor has been spray-painting his car and as a car painter is sure that a law is being violated. Caller: Gary (808) 456-9483. Attempted to conduct a site visit; at 3:07 p.m. - no one answered the telephone.	Air
Oahu	Pearl City	1514 Kuala Street Brush Fire	20070514-1346	Brush Fire on vacant lot, 2 large mounds of dirt alleged to contain hazardous materials.	Soil

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Oahu	Pearl City	HECO Generating Station: Waiau	20060718-0952	1ft X 1ft Sheen - Historical oil leak.	Ocean
Oahu	Pearl City	HECO Generating Station: Waiau	20070620-1555	Fuel oil floating on shallow groundwater at Fuel Tank #4; release inside containment wall.	Groundwater
Oahu	Pearl City	Home and Community Services of Hawaii, Inc.	20061229-1040	Spill of unknown liquid - disposed of in a dumpster.	Asphalt
Oahu	Pearl City	Ocean Fresh Seafood	20070601-1030	Request from the Honolulu Fire Department for assistance - approximately 11 compressed gas cylinders containing carbon monoxide compromised by heat as a result of a fire that occurred on 05/29/2007; additional three burst cylinders also on scene.	Air
Oahu	Pearl City	TMK 97024052	20070514-1345	Brush fire on property. Soil Concern of the dirt mounds on property containing hazardous material.	
Oahu	Pearl Harbor	3PSC	20060703-0721	Release from oily water tank.	Ocean
Oahu	Pearl Harbor	Chevron's Pipeline Oil Spill at Waiau 5/14/96	Various case numbers totaling 247 notifications	Historic Site; Oil Sheen in CT10 area.	Ocean/pond
Oahu	Pearl Harbor	Defense Distribution Depot Pearl Harbor	20061024-1031	Forklift punctured a 55 gal drum. 25 gals of Mineral was spilled onto asphalt. 10/30/06 written report, amount of oil in report is 20 gals spilled.	

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Oahu	Pearl Harbor	Fleet Industrial Supply Diesel Spill	20061208-1601	8 ounce of diesel fuel went into the water due to equipment failure on a gage while disconnecting a fuel hose.	Ocean
Oahu	Pearl Harbor	Merry Point Pearl Harbor	20070405-0937	Sheen coming from a storm drain into Pearl Harbor; source is from a dumpster located outside a basketball court.	Ocean
Oahu	Pearl Harbor	NAVBASE Pearl Harbor	20060717-0715	Due to a failed injector 1qt. diesel was released in Pearl Harbor.	Ocean
Oahu	Pearl Harbor	Pearl Harbor	20061006-0629	Fuel Released while transferring fuel.	Ocean
Oahu	Pearl Harbor	Pearl Harbor - Pier Bravo 26	20061005-1439	During refueling of a Taiwanese ship, diesel fuel released.	Ocean
Oahu	Pearl Harbor	Pearl Harbor Bravo 13	20070212-1609	Material released into Pearl Harbor from a vessel due to operator error. 10 gallons spilled into water.	Ocean
Oahu	Pearl Harbor	Pearl Harbor Navy Shipyard	20070208-1220	Refueling operations of a dive boat, approximately 0.5 gallon of diesel spilled; Boom prior to operations were in place.	Ocean
Oahu	Pearl Harbor	Pearl Harbor Shipyard Hydraulic Fluid Spill	20061220-1450	Ruptured hydraulic Fluid line from floating crane.	Ocean

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Oahu	Pearl Harbor	Pearl Harbor Unknown Sheen NRC 840305	20070628-1141	Caller stated that they discovered an unknown sheen near their facility. Source unknown. Size: 8' x 4' between intake tunnels 7 and 8.	Ocean
Oahu	Pearl Harbor	Rainbow Bay in Pearl Harbor	20061129-0939	Caller stated that while filling a vessel, there was a connection that was not plugged. The product overflowed causing the bilge to come on. The bilge pumped the product into the water.	Ocean
Oahu	Pearl Harbor	Sheet CT10 Pond Area	20060822-0957	Sheen discovered in the CT10 Pond area at the Waiiau Power Plant. This is a continuous release from remnants of an historic oil spill.	Pond
Oahu	Pearl Harbor	USS Port Royal	20060831-1355	Due to equipment failure overflow from a discharge valve released oily wastewater into Pearl Harbor.	Ocean
Oahu	Sand Island	HECO Transformers 50950, 50951, 50952	20061016-1313	Three pole-mounted transformers fell; total capacity of each transformer is 30 gallons.	Storm drain
Oahu	Schofield Barracks	Schofield Barracks, 572 Burr Place	20060807-1333	Slow leak onto concrete pad and soil from pad-mounted transformer.	Concrete, Soil
Oahu	Wahiawa	Helemano Military Reservation, 115-129 Ka Ni'o Ct	20060807-1332	Slow leak around tank base of pad-mounted transformer.	Concrete

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Oahu	Wahiawa	Lake Wilson	20060825-1246	Foul odor from Lake Wilson.	Lake
Oahu	Wahiawa	Puninoni Street and California Avenue	20070205-1000	Referral from SHWB - Drum or 55-gallon metal drum abandoned - (CCFM).	Other Container
Oahu	Waialae	Public Storage	20060705-0815	Spill of unknown liquid	Concrete
Oahu	Waianae	84-276 Ikuone Pl.	20061219-1521	Alleged diesel release on property.	Soil
Oahu	Waianae	85-199 Ala Akau Street #C	20060808-1403	Allegations of several gas tanks being stored.	Within Facility
Oahu	Waianae	HECO Barbers Point Tank Farm	20060712-0935	While drilling a boring - encountered Heavy End Petroleum in soil sample. 7.5-9 feet below surface. Probably coming from Chevron.	Soil
Oahu	Waianae	Leeward Petroleum - Rico Repair	20061004-1640	Strapping on a 500-gallon metal cylinder tank with approximately 15 - 50 gallons of diesel fuel broke, causing a 4-inch crack on the cylinder, releasing contents on road and into a storm drain.	Storm Drain
Oahu	Waianae	Waianae Valley Road, Paint Waste Drum	20070622-1000	Fugitive dumping of 55-gallon metal drum.	Soil
Oahu	Waiau	HECO Upper Pond Sheen	20070420-0743	Historic Site: Oil Sheen in upper pond. Size 10" x 10"	Ocean
Oahu	Waikele	Castle and Cooke Properties - Ka Uka Blvd.	20060919-1330	Dumpsite - two 55-gallon drums that appear to be leaking, computers, approximately 300 - 400 tires.	Soil

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Oahu	Waikiki	Sea Marker (flare)	20070131-0829	A US Navy sea marker Air washed ashore still releasing its smoke signal. The impacted shoreline was behind Elk's club.	
Oahu	Waimanalo	HECO Transformer 27728 (Vault 3032)	20060705-0152	40CFR 761.61(a) PCB cleanup from a transformer spill.	Soil
Oahu	Waimanalo	Waimanalo Beach Park	20061216-0730	Unknown yellow container found on beach.	Ocean
Oahu	Waimanalo	Waimanalo Storm Drain	20070329-1017	Release of materials onto ground and into storm drain from a vehicle due to unknown causes.	Soil/Storm Drain
Oahu	Waipahu	Hawaii Transfer Company Ltd.	20070629-1020	Tractor Trailer backed into a fire hydrant causing a hole in the fuel tank.	Stream
Oahu	Waipahu	Leoleo and Leokane Streets Fugitive Dumping	20061211-1020	Fugitive dumping of two x 55-gallon drums (one with approximately 5 gallons and other approximately full). Requested PENCO to conduct removal with City and County of Honolulu Facilities Maintenance (CCFM) to pay for removal.	Drum or Other Container
Open Ocean	Open Ocean	Fuel Spill in Ocean 25 miles South of Oahu	20060720-0955	Release of diesel fuel while refueling USS Shoup at sea, broken fuel line.	Ocean
Open Ocean	Pacific Ocean	Unknown Sheen Pacific Ocean NRC 824460	20070123-1228	Caller reported unknown sheen in the Pacific Ocean.	Ocean

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