

**REPORT TO THE TWENTY-FIFTH LEGISLATURE
STATE OF HAWAII
2009**

**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 2008**

PREPARED BY:

**DEPARTMENT OF HEALTH
STATE OF HAWAII
DECEMBER 2008**

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EXECUTIVE SUMMARY

REPORT ON THE ENVIRONMENTAL RESPONSE REVOLVING FUND FOR FISCAL YEAR 2008

Report on Chapter 128D, HRS, Environmental Response Law and 128E, HRS Hawaii Emergency Planning and Community Right-to Know Act

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 report presents an accounting of FY 2008 128D, HRS Environmental Response Revolving Fund (ERRF) budget and expenditures, with descriptions of key program activities for five Environmental Health Administration (EHA) programs. ERRF 128D, HRS funds are used for the following purposes.

- 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.

The report also presents an accounting of 128E, HRS Hawaii Emergency Planning and Community Right to Know Act (HEPCRA) Tier II filing fees collected and distributed in FY 2007 and 2008, and distributed for FY 2009.

Environmental Response Revolving Fund Support to Five Environmental Health Administration Programs

Five programs in the Environmental Health Administration (EHA) received ERRF funding during FY 2008. 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 (\$3,262,663), the Environmental Management Division (EMD) (\$54,997), the Clean Water Branch (CWB) (\$279,939), the Safe Drinking Water Branch (SDWB) (\$724,933), and the Solid and Hazardous Waste Branch (SHWB) (\$617,858). Total ERRF appropriation for the five programs was \$4,940,390.

The State expended \$4,344,062 of \$5,140,390 appropriated to fund the five HTH 849 and HTH 840 environmental programs. The individual draw-downs from the ERRF were \$2,648,636 to the Hazard Evaluation and Emergency Response Office, \$3,955 to the Environmental Management Division, \$298,528 to the Clean Water Branch, \$760,087 to the Safe Drinking Water Branch, and \$632,857 to the Solid and Hazardous Waste Branch. Revenue to the ERRF totaled \$3,352,373.

The listing of sites required under 128D, HRS are presented at the end of this document.

The list of Hawai'i Sites Eligible Under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) shows there are currently three sites listed on EPA's CERCLA National Priority List (NPL) for cleanup, and nineteen sites for possible listing under CERCLA.

The Department of Health Hawai'i State Response Program List of Priority Sites presents all Hawai'i sites identified for potential or known non-emergency response actions managed by the HEER Office Site Discovery, Assessment, and Remediation Section Remedial Project Managers (RPMs). The list shows 469 sites are managed within the HEER Office.

The DOH Hawai'i SRP Priority List of Sites shows 464 sites with potential or known hazardous substance or petroleum contamination. Thirty-five sites were determined to require No Further Action (NFA). Seventeen of those sites receiving NFA during FY 2008 will be monitored for land use restrictions.

HEER Office Remedial Project Managers (RPMs) continue active oversight on 405 assessment and response actions.

The Department of Health [Hawai'i State Response Program Release Notification Log](#) contains a listing of all emergency hazardous substance and petroleum release notifications received by DOH HEER Office during the fiscal year.

The Hazardous Evaluation and Emergency Response (HEER) Office received a total of 328 notifications

including 197 oil sheen notifications for the historic Chevron's Pipeline at Waiiau CT10 area. Notifications for potential or actual releases of Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance(s) or petroleum related substances numbered 117. HEER Office State On Scene Coordinators (SOSCs) performed direct oversight on 56 cases requiring on-site visits or off-scene coordination.

FY 2008 DOH ENVIRONMENTAL PROGRAM HIGHLIGHTS

Hazard Evaluation of Ecological and Human Health Risk

In FY 2008 HEER Office staff gave presentations at a state Brownfields forum and national environmental conferences in California and New York on the investigation of pesticide contamination in former agricultural land slated for new development. The staff updated guidance on risks posed by arsenic and dioxin contamination in former agricultural areas. They also provided technical support to other branches of the Environmental Management Division of DOH on issues that ranged from the reuse of H-Power Ash and municipal waste for commercial purposes to the impacts of vog on water supplies potentially affected by emissions from Kilauea volcano.

Hazard Evaluation of Ecological and Human Health Risk at Halema'uma'u Crater

On March 12, 2008 a new vent opened at Halema'uma'u Crater. Communities in many parts of the Island of Hawai'i, especially in the southern region, became exposed to high concentrations of sulfur dioxide and particulate matter emitted from the volcano. The increased emissions at Halema'uma'u Crater resulted in a coordinated response by Civil Defense and Department of Health, to provide emergency response guidance on health based levels for sulfur dioxide.

In addition to the emergency response levels for sulfur dioxide due to acute respiratory health effects, a surveillance system for emergency department visits on the Island of Hawai'i was established by HEER and staff at Emergency Medical Services in consultation with a medical toxicologist at the Rocky Mountain Poison and Drug Center.

Due to the urgency of the increased emissions from Kilauea, DOH requested assistance from the Center for Disease Control (CDC) to help assess the potential long term health effects. A team of scientists from CDC provided onsite technical assistance in August 2008. A report summarizing the CDC team's findings was received in November 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.

Conversion of Former Agricultural Lands to Residential Use

The HEER Office has increased oversight of the investigation of former agricultural lands for residential and commercial redevelopment in FY 2008. Technical guidance was prepared and made available to the public to ensure that the investigations provide needed data in a timely and cost-effective manner as possible.

Brownfields Grants and the Brownfields Cleanup Revolving Loan Fund (BCRLF)

HEER Office provides ongoing assistance to the island of Hawai'i and City and County of Honolulu, who are currently working on active brownfields assessment grants. The office also has an ongoing partnership with the Office of Planning, DBEDT, Maui County, and City and County of Honolulu to provide cleanup loans to eligible property owners.

HEER Office Hosts Brownfield Forums

HEER Office continues to host annual Brownfield Forums to facilitate redevelopment of potentially contaminated properties in 2008. The third annual forum was held in October, 2007 and was attended by over 200 participants, including stakeholders from the public and private sectors, banking, environmental consulting, insurance, development and community concerns.

Testing of Drinking Water for Lead in Child Care Facilities

The Safe Drinking Water Branch awarded a contract to test the lead levels in drinking water at all licensed child care facilities. Water fixtures where children obtained drinking water and food preparation water is supplied were targeted in accordance with the

3 T's for Reducing Lead in Drinking Water in Child Facilities, published by EPA. The Safe Drinking Water Branch, the Department of Human Services, and the contractor, AMEC Earth and Environmental, Inc. are working closely together in this special effort to investigate the lead levels in the tap water for a vulnerable part of the population.

Expanding Assistance to Owners and Users of Residential Rainwater 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.

The Safe Drinking Water Branch supported the College of Tropical Agriculture and Human Resources by helping to sponsor 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.

The recent activity at the Halema'uma'u crater has caused increased concerns over the impacts of

volcanic gases and ash on rainwater catchment systems located downwind. In order to evaluate the possible impacts, SDWB has been monitoring the raw, rainwater catchment supplies utilized by public water systems on the island of Hawaii using preliminary ash data from the United States Geological Survey.

Sites Improved Under the RCRA Land Revitalization Program Managed by Solid and Hazardous Waste Branch

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 being 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.

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128D, HRS ENVIRONMENTAL RESPONSE LAW REPORT

**ENVIRONMENTAL RESPONSE REVOLVING FUND
HTH 849 AND HTH 840 FUNDING, BUDGET, AND EXPENDITURE**

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 2008. 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 tax” established in the Fuel Tax Law, 243-3.5, HRS revenue supports the 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. 128D, HRS 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.

Report on De Minimis Settlements

Chapter 128D, HRS, Environmental Response Law, requires that the department report annually on any de minimis settlements. During FY 2008 there were no de minimis settlements.

Environmental Response Revolving Fund Revenue

Table 1 presents the actual revenue collected as of June 30, 2008.

Table 1 Environmental Response Revolving Fund Revenue

Revenue Source	HTH 840 S339H	HTH 849 S342H	Total
Environmental Response Tax	-	1,695,473	1,695,473
Investment Pool Account	14,397	268,314	282,711
Fees. Filing of Tier II Chemical Inventory	-	106,964	106,964
Fees, Voluntary Response Account	-	4,050	4,050
Circuit Court	-	750	750
Violations of Air Pollution Law	-	329,300	329,300
Violations of Hazardous Waste Law	-	871,940	871,940
Violations of Water Pollution Law	-	34,230	34,230
Violations of Solid Waste Law	-	4,800	4,800
Transfers from Special Funds Revenue	-	1,750	1,750
Violations of Community Noise Control Law	-	20,405	20,405
Total S339H (HTH 840) and S342H (HTH849)	14,397	3,337,976	3,352,373

ENVIRONMENTAL HEALTH ADMINISTRATION BUDGET AND EXPENDITURE SUMMARY FOR FIVE ENVIRONMENTAL PROGRAMS

Budgets were appropriated to the Hazard Evaluation and Emergency Response (HEER) Office (\$3,262,663), the Environmental Management Division (EMD) (\$54,997), the Clean Water Branch (CWB) (\$279,939), the Safe Drinking Water Branch (SDWB) (\$724,933), and the Solid and Hazardous Waste Branch (SHWB) (\$617,858). Total ERRF appropriation for the five programs was \$4,940,390.

The State expended \$4,344,062 of \$5,140,390 appropriated to fund the five HTH 849 and HTH 840 environmental programs. The individual draw-downs from the ERRF were \$2,648,636 to the Hazard Evaluation and Emergency Response (HEER) Office, \$3,955 to the Environmental Management Division, \$298,528 to the Clean Water Branch, \$760,087 to the

Safe Drinking Water Branch, and \$632,857 to the Solid and Hazardous Waste Branch. Revenue to the ERRF totaled \$3,352,373.

Table 2 through 7 presents a summary of the amounts appropriated, allocated, and expended for all and each of the five EHA programs. Three fund groups (A, B, and C) are listed. Data for salaries and fringe are shown in the A funds category. Data for travel, contracts, supplies, and construction are shown in the B funds category. Data for equipment are shown as C funds. 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

	FY 2008 Appropriation	FY 2008 Allocation	FY 2008 Expenditure / Encumbrance
HEER-HTH 849-FD			
A Funds	1,112,250	1,145,911	1,180,125
B Funds	2,150,413	2,120,413	1,415,266
C Funds	-	30,000	53,245
HEER Subtotal	3,262,663	3,296,324	2,648,636
EMD-HTH 840-FE			
A Funds	54,997	55,997	3,000
B Funds	-	-	955
C Funds	-	-	-
EMD Subtotal	54,997	55,997	3,955
CWB-HTH 840-FG			
A Funds	114,939	116,939	138,528
B Funds	160,000	160,000	160,000
C Funds	5,000	5,000	-
CWB Subtotal	279,939	281,939	298,528
SDWB-HTH 840-FH			
A Funds	569,940	598,940	680,807
B Funds	154,993	154,993	79,280
C Funds	-	-	-
SDWB Subtotal	724,933	753,933	760,087
SHWB-HTH 840-FJ			
A Funds	602,858	624,036	631,704
B Funds	15,000	15,000	1,153
C Funds	-	-	-
SHWB Subtotal	617,858	639,036	632,857
Total	4,940,390	5,027,229	4,344,062

Table 3 Hazard Evaluation and Emergency Response (HEER) Office

HEER-HTH 848-FD	FY 2008 Appropriation	FY 2008 Allocation	FY 2008 Expenditure / Encumbrance
A Funds	1,112,250	1,145,911	1,180,125
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			
<u>18</u>			
B Funds	2,150,413	2,120,413	1,415,266
C Funds	<u>-</u>	<u>30,000</u>	<u>53,245</u>
HEER Office Total	3,262,663	3,296,324	2,648,636

Hawaii State Response Program: HEER Office manages the Hawaii State Response Program with funding from the ERRF, General fund, and federal grant appropriations. These combined funds provide for state leadership in addressing releases of hazardous substances and/or petroleum into the environment.

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 2008, 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 Inspection 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. In 2008, the HEER Office received EPA approval to use PA/SI funding to conduct rapid site screenings using a sampling of opportunity approach.

Federal Cleanup Programs: 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.

Table 4 Environmental Management Division (EMD)

EMD-HTH 840-FE	FY 2008 Appropriation	FY 2008 Allocation	FY 2008 Expenditure / Encumbrance
A Funds	54,997	55,997	-
<u>1</u> Information Technology Specialist V, SR 24			
1			
B Funds	-	-	-
C Funds	-	-	-
EMD Total	54,997	55,997	-

EMD: The ERRF funds an Environmental Management Division (EMD) network manager position. The network manger supports and maintains the Local Area Network/Wide Area Network (LAN/WAN) connections for the division. Key support is provided to the Environmental Health Administration

(EHA) One Stop project and the Safe Drinking Water Branch (SDWB) Safe Drinking Water Information System (SDWIS/State) project. A major milestone during FY 2008 was the completion of the migration from Novell Network to Windows Active Directory Network.

Table 5 Clean Water Branch (CWB)

CWB-HTH 840-FG	FY 2008 Appropriation	FY 2008 Allocation	FY 2008 Expenditure / Encumbrance
A Funds	114,939	116,939	138,528
1 Information Technology Specialist IV, SR 22			
<u>1</u> Env. Health Specialist IV, SR 22			
2			
B Funds	160,000	160,000	120,000
C Funds	<u>5,000</u>	<u>5,000</u>	-
CWB Total	279,939	281,939	258,528

CWB: The ERRF funds an Environmental Health Specialist (EHS) IV position and an Information Technology Specialist (ITS) IV position for the Clean Water Branch (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 also continued funding of the 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 2008 funds were used to extend the HACD contract for the Conservation Specialists on Oahu, Kauai and Waimea.

Table 6 Safe Drinking Water Branch (SDWB)

SDWB-HTH 840-FH	FY 2008 Appropriation	FY 2008 Allocation	FY 2008 Expenditure / Encumbrance
A Funds	569,940	598,940	680,807
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			
11			
B Funds	154,993	154,993	78,566
C Funds	-	-	-
SDWB Total	724,933	753,933	759,373

SDWB: 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 2008. These funds support activities that have both direct and indirect drinking water protection benefits.

The ERRF currently supports a staff of three geologists and one clerk-typist who administer the Hawai'i Underground Injection Control (UIC) Program for approximately 1,200 facilities (project files) statewide.

The ERRF supports two environmental engineers who implement major drinking water regulations. One administers the Lead and Copper Rule, its revisions, and other related activities, while the other handles the Long Term 1 and 2 Enhanced Surface Water Treatment Rules and the Stage 1 and 2 Disinfectants/Disinfection By-Products Rules.

The ERRF also support an environmental health specialist and a clerk-typist involved in drinking water monitoring activities.

The ERRF supports a staff of two, an environmental engineer and a clerk-typist, to administer the Certification of Operators of Public Water Systems process. 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.

ERRF also supports the certification process by funding 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.

The ERRF supports the Safe Drinking Water Branch Information Technology Specialist who is assigned the task of preparing the Safe Drinking Water Branch for the implementation of the Safe Drinking Water Information System/State data management system.

Other program addressed with ERRF funding are the Capacity Development Program, Assistance to Owners and Users of Rain-Water Catchments Systems program, Circuit Rider Program, and Continuing Education Program for Drinking Water System Operators.

Table 7 Solid and Hazardous Waste Branch ERRF Budget and Expenditure

SHWB-HTH 840-FJ	FY 2008 Appropriation	FY 2008 Allocation	FY 2008 Expenditure / Encumbrance
A Funds	602,858	624,036	631,704
1 Env. Engineer IV, SR 24 (SW)			
2 Env. Health Specialist IV, SR 22 (HW)			
1 Env. Health Specialist IV, SR 22 (LUST)			
1 Env. Health Specialist III, SR 20 (LUST)			
1 Env. Health Specialist IV, SR 22 (UST)			
3 Env. Health Specialist III, SR 20 (UST)			
<u>1</u> Clerk Typist II, SR 08 (UST)			
10			
B Funds	15,000	15,000	1,153
C Funds	-	-	-
SHWB Total	617,858	639,036	632,857

SHWB: 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
- Oversight of the County's Oil Recycling Program

The Environmental Health Specialist (EHS) IV Permit Writer, who is supported by the oil fund, provides oversight of contaminated facilities undergoing ground water monitoring.

The Special Waste permitting engineer is responsible for permitting and monitoring activities over a wide range of special waste management facilities.

The Environmental Health Specialist (EHS) III has an active caseload of 57 LUST sites at this time and provides project oversight to all remedial efforts of his cases. The EHS IV provides team unit leadership for three other EHS III staff. The EHS IV also works on additional active LUST sites.

**128E, HRS HAWAII EMERGENCY PLANNING AND COMMUNITY
RIGHT-TO KNOW ACT (HEPCRA) REPORT**

HEPCRA TIER II FILING FEES

The Department of Health presents this Chapter 128E, HRS Hawaii Emergency Planning and Community Right to Know Act (HEPCRA) fiscal year report. HEPCRA requires that an owner or operator of a facility that stores, uses, or manufactures above defined thresholds, any hazardous substance, or extremely hazardous substance, is required to file a notification of such "Tier II" activity, and to pay a filing fee.

HEER Office staff assesses Tier II reports submitted annually by facility owners and collects the fees that are then deposited into the ERRF. The staff provides administrative support to the Hawaii State Emergency Response Commission (HSERC) and technical assistance to the Local Emergency Planning Committees (LEPCs) on Hawaii, Oahu, Kauai, and

Maui in support of HEPCRA statewide activities to prepare for and respond to chemical and oil spills in the environment.

The amount of fees projected to be collected for fiscal year 2009 is likely to remain the same. This projection is based on the number of Tier II submittals received during GY 2007 and 2008.

Tier II filing fees were collected and distributed as noted below to the LEPCs after deductions for the HSERC operating expenses. Reporting on the collection of fees is reported for the year following the year fees were collected. For example, fees reported for FY 2008 in the amount of \$106,964, were collected during FY 2007.

Table 8 HEPCRA Tier II Filing Fees Collected FY 2007-2009 and Distributed FY 2009

<u>Tier II Filing Fees</u>	<u>Number of Facilities</u>	<u>Amount Collected</u>	<u>Amount Distributed</u>
FY 2007	970	72,900	66,968
FY 2008	979	106,964	41,789
FY 2009 projected		110,000	
 Funds Distributed to LEPCs for FY 2009			
Honolulu			29,489
Hawai'i			15,764
Maui			11,410
Kauai			10,305
			<hr/>
		Total	66,968

REPORT ON KEY ENVIRONMENTAL PROGRAM ACTIVITIES

HAZARD EVALUATION, EMERGENCY RESPONSE, AND SITE CLEANUPS IMPROVED

Hazard Evaluation of Ecological and Human Health Risk Key Activities

The 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 2008 HEER Office staff gave presentations at a state Brownfields forum and national environmental conferences in California and New York on the investigation of pesticide contamination in former agricultural land slated for new development. HEER staff updated guidance on risks posed by arsenic and dioxin contamination in former agricultural areas. They also provided technical support to other branches of the DOH Environmental Management Division on issues that ranged from the reuse of H-Power Ash and municipal waste for commercial purposes to the impacts of vog on water supplies potentially affected by emissions from Kilauea volcano.

In FY 2008, 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.

Educational materials on lead exposure were provided to parents and residents living on a site contaminated with lead in Waianae. Staff also handled inquiries on fish and mercury by responding to calls from the public as well as obstetrics/gynecology physician's offices.

University of Hawai'i VOG Study

U.S. Centers for Disease Control and Prevention's (CDC's) National Center for Environmental Health (NCEH) money was provided DOH to assess the health effects of volcanic emissions. Beginning in September 2005, DOH contracted with the University of Hawai'i John A. Burns School of Medicine (JABSOM) to conduct research on the health effects of volcanic emissions. The study led by Dr. Elizabeth Tam, focused on the relative effects of volcanic air pollution on cardiopulmonary health. The study found no significant adverse cardiopulmonary health outcomes due to exposure to volcanic emissions. Since the research was done prior to the new Halema'uma'u vent opening, the study results may not be representative of current conditions. A new grant provided directly to Dr. Tam by CDC will focus on the long term health effects of vog on about 2000 children living on the Island of Hawai'i.

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

Under the authority of Section 321-311, HRS, Environmentally-Related Illness and Injury surveillance, the DOH Hazard Evaluation and Emergency Response (HEER) Office is required to collect information on Pesticide and Heavy Metal Poisoning. Beginning in September 2007, a group of pesticide and heavy metal analytes were added to the Electronic Communicable Disease Reporting System (ECDRS) electronic data feed from clinical laboratories on Hawai'i to the Department of Health (DOH), Disease Outbreak Control Division (DOCD), Disease Investigation Branch (DIB). Previously to setting up the electronic data feed, HEER was receiving hard copy lab results as late as 4 to 6 months after the specimen collection date. Analysis of the hard copy results indicated that they were incomplete compared to the electronic results. Efforts are underway to produce a web based front end application that will provide data entry, display, and report capabilities for the adult lead data as well as arsenic, mercury, cadmium and pesticide data.

Childhood Blood Lead Levels

Beginning in September 2007, HEER began tracking children with elevated blood levels exceeding 10 ug/dl. Children with blood lead levels exceeding 10 ug/dl were referred to the Indoor and Radiological Health Branch where their home environment was evaluated. Tests performed between September 2007 to July 1, 2008 showed 13 children out of approximately 4,843 children tested had blood lead levels exceeding 10 ug/dl. HEER is working with Maternal and Child Health to prepare a report of the results for submission to CDC. HEER is coordinating with other branches within the DOH to ensure that the children with elevated lead levels get appropriate resources.

Adult Blood Lead Epidemiology and Surveillance Reporting

A semiannual report to NIOSH, covering the period from September 16, 2007 through March 15, 2008, was submitted. There was only one case of an excessively high level of lead during the period, a male employee at Pearl Harbor Naval Shipyard. Its unusual circumstances were mentioned at the national ABLES meeting in Denver, Colorado, on June 9-10, 2008.

Center for Disease Control Real Time Disease Detection Grant

DOH was awarded a grant from the CDC to work with the Rocky Mountain Poison Center (RMPC) to gather real-time data from Hawai'i Poison Hotline to define events of public health significance with special emphasis on chemical surveillance. In June 2008, (RMPDC) implemented a real-time disease detection system for Hawai'i that relies primarily on telephone reports to Hawai'i Poison Hotline. Disease detection definitions were developed jointly with Hawai'i governmental agencies including DOH HEER Office, Emergency Medical Services (EMS), Hawai'i Department of Health, Chemical Terrorism Response Laboratory of the Hawai'i Department of Health, and Hawai'i Department of Agriculture (HDOA) Pesticides Branch. The real time detection system targets chemical exposures. Email alerts are sent to the HEER office when calls indicate potential events of public health significance.

Emergency Preparedness and Response Key Actions

The HEER Office Emergency Preparedness and Response (EP&R) Section along with the four State On-Scene Coordinators (SOSC) are responsible for planning and preparing for, and responding to releases of hazardous substance(s) and/or oil that may cause immediate and substantial threat to human health or the environment. The SOSCs have been trained to enter hazardous atmospheres in self contained breathing apparatus (SCBA) and various types of personal protective equipment. SOSCs are on 24-hour call as back-up personnel to first responder County HAZMAT teams.

During FY 2008, the HEER Office received 410 notifications which were directly concerned with the release of hazardous chemicals or oil spills. Of the 410 notifications reported, 56 required a site response by a State On-Scene-Coordinator (SOSC) and/or a major off-scene coordination and response effort.

Additional information about the environmental program and available documents can be obtained at the Department of Health web site at: <http://hawaii.gov/health/environmental/hazard/environmental/hazard/index.html>.

Oil Spill Preparedness

DOH in partnership with the Clean Islands Council (CIC), developed additional units for a semi-mobile oiled wildlife facility. A laundry unit, a food preparation unit, and emergency power trailers were added so the existing bird stabilization unit so the facility may be easily moved to the location of any incident.

Hawaiian Electric Company Diesel Spill

On the morning of June 25, 2007 the HEER Office received notification of a 5,900 gallon diesel spill from a generator tank line at the Campbell Industrial Park substation. The oil overflowed the containment and spread over a large ground area. The site was cleaned up through extensive excavation.

UH Research Vessel Kaimikai-O-Kanaloa Diesel Spill

On the morning of October 11, 2007, the University of Hawaii Research Vessel Kaimikai-O-Kanaloa (KOK) reported seeing pink diesel in the water between the KOK and its Pier 45 Snug Harbor tie up. The KOK had been thoroughly bottom inspected and fueled prior to leaving for a task in the Leeward Islands and was pumping off grey water to the sewer connection pier side. The spill was immediately boomed off per the vessel spill plan, contractor support was called in, and notifications were made.



Kaimikai-O-Kanaloa

Tank sounding indicated 7,400 gallons of diesel #2 was missing from the on board fuel tank and diesel was present in the adjacent grey water tank. Diesel was found in the sewer line and sump pump. No cracks were found in the hull. The sewer line was dug up and improper joints were found and replaced. Cleanup lasted a month and nearly all diesel was recovered.



Under Honolulu Harbor Pier

Barbers Point Harbor Diesel Spill

An oil spill was reported in the Barbers Point Harbor on the morning of February 23, 2008 with an unknown cause and source of the spill. Over-flights observed a large oil sheen in Barbers Point Harbor and stretching out the channel west toward Ko'Olina Resort and the power plant. A slight odor of diesel was reported. The Ko'Olina marina and lagoons were impacted.

Investigation determined that the diesel fuel had spilled during a discharge from a tanker to TESORO Oil or Aloha Petroleum fuel lines ashore, or during a transfer from TESORO Oil tanks to a tank barge. Clean Islands Council conducted the spill cleanup. It was estimated that the spill amount was 1,000 gallons of light diesel. The spilled oil matched the oil that was transferred ashore and back to a barge. Pipeline tests, vessel tank soundings, and a hull inspection did not indicate the cause of the spill. The investigation is still ongoing.



Barbers Point Harbor



Ko'Olina Marina

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.

Key State Cleanup Actions

Honolulu Harbor

The Honolulu Harbor/Iwilei District cleanup project continues to make significant progress in the cleanup of separate phase hydrocarbon (SPH) and other contamination.

Notable milestones by IDPP include:

- Completion of complex, three dimensional characterization of petroleum plume in OU1C and OU2.
- Ongoing product removal and completion of pipeline tapping and draining effort under Nimitz Highway.
- Public meetings to solicit comment on draft RAMs completed for two major operating units, OU1C and OU2. Final decision documents expected in early 2009.

Public meetings to solicit comment on draft RAMs completed for two major operating units, OU1C and OU2. Final decision documents are expected in early 2009.

BHP GASCO Benzene Site, Oahu

The Agreement on Remedial Action for this site has been transferred from BHP Hawaii to Weston, Inc. 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.



Honolulu Harbor Iwilei District Pipelines in HECO Trench Near Flora Dec

Key Navy Site Cleanup Decisions

Records of Decision:

- Multiple transformer sites across Pearl Harbor
- Multiple transformer sites across NCTAMS
- Ford Island Building 284, and Former Buildings 80 & 302.
- Former Drum Crushing Area, Former NAS Barbers Point

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. Intensive, cooperative work between EPA, DOH and the Navy has led to submittal of a draft work plan to resolve the dispute and finalize the sediment investigation.

Key Hawaii State Response Program Programmatic Accomplishments

Voluntary Response Program

The Voluntary Response Program (VRP) encourages voluntary cleanup of contaminated properties. Under 128D, HRS, 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 18 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 2008, the VRP program recovered \$27,200 in program costs from responsible parties.

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.

Cost Recovery

HRS 128D provides legal authority to cost recover for DOH oversight of remedial activities at contaminated sites in Hawai'i. In FY 2008, DOH received \$66,695 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.

Final Rules Adopted for Decontamination of Illegal Drug Manufacturing Sites

In accordance with Act 170, SLH, 2006, the HEER Office adopted interim rules and guidelines for the decontamination of illegal drug manufacturing sites on September 6, 2006. After researching the issue nationwide and recommending modification, the Department adopted and the Governor approved final rules on November 16, 2007.

CLEAN WATER BRANCH CAPABILITIES IMPROVED

Clean Water Branch Sewage Spill Notification Web Site Improved

ERRF funding to the Clean Water Branch (CWB) was utilized to improve the warning and sewage spills on the DOH web site. The CWB employs a "Clean Water"

hotline (586-5826) and web page to warn of contaminated waters. The website also shows water testing results.

SAFE DRINKING WATER BRANCH PROTECTION OF PUBLIC HEALTH AND DRINKING WATER QUALITY IMPROVED

SDWB Key Activities

During FY 2008, SDWB focused ERRF funding on the following major activities to protect public health and drinking water quality.

- Continued the migration of both State and County drinking water chemical testing data into the Safe Drinking Water Information System /State database.
- During FY 2008, all but two public water systems demonstrated 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 31 sanitary surveys of public water systems throughout the State.
- Completed 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 conduct the sanitary surveys of the North and South Kona water systems.
- Awarded a contract to extensively test all child-care facilities in the state for the lead content of their drinking water.
- Received 129 Underground Injection Control applications, issued 26 approvals to construct, 58 operating permits, and closed 61 injection well facilities.

Lead and Copper Rule Administration

Throughout FY 2008, all but 2 public water systems in the state had lead and copper concentrations in the tap water below the 90th percentile action levels.

In FY 2008, the SDWB contracted AMEC Earth and Environmental, Inc. to perform lead testing of tap water at all licensed child care facilities in Hawaii. With the assistance and cooperation of the Department of Human Services and child care facilities staff, AMEC sampled water from fixtures where children obtained drinking water and where food preparation water was supplied. The water samples were then collected and sent to Weck Laboratories (City of Industry, California) for analysis. The results and other supporting information were provided to facility staff and parents. Follow-up samples and additional actions were taken

when lead concentrations exceeded twenty (20) parts per billion (ppb), in accordance with the recommendations contained in the U.S. EPA's 3 T's for Reducing Lead in Drinking Water in Child Care Facilities.

AMEC has been progressing ahead of schedule is expected to complete both the statewide sampling and the report summarizing the program, including the total number of facilities by island that were sampled, the number of samples taken, and a breakdown of those samples with lead concentrations exceeding 20 ppb is expected to be completed in FY 2009

Development and Maintenance of Disinfectant/Disinfection By-Products Rules and Enhanced Surface Water Treatment Rules

The Disinfectant/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.

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

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.

Certification of Operators of Public Water Systems

Drinking water is protected through the Certification of Operators of Public Works program. The program was established 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.

At the end of FY 2008, the program had 182 certified water treatment plant operators and 466 certified distribution system operators. Some operators maintain dual certifications.

Assistance to Owners and Users of Rain-Water Catchments Systems

During 2008, 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.

The Safe Drinking Water Branch supported the University of Hawai'i at Hilo which hosted the American Rainwater Catchment System Association's 2007 National Conference on August 14-17, 2007 at the Kilauea Military Camp. This conference featured experts from all over the nation and the world on rainwater harvesting and use. In addition, it provided an excellent opportunity for people in the community to meet with these experts and learn from their collective knowledge about the many aspects of rainwater catchment and use.

The recent activity at the Halema'uma'u crater has caused increased concerns over the impacts of volcanic gases and ash on rainwater catchment systems located downwind. In order to evaluate the possible impacts, SDWB has been monitoring the raw, rainwater catchment supplies utilized by public water systems on the island of Hawaii. So far, the results appear to be consistent with the unofficial ash analyses performed by the United States Geological Survey, with low levels of cadmium and aluminum detected in the rainwater. A special study is being developed to similarly evaluate rainwater catchment in communities impacted by the increased volcanic emissions.

Safe Drinking Water Information System (SDWIS/State)

The SDWB successfully implemented an electronic data exchange system for direct exchange of EPA and state data. Data in Safe Drinking Water Information System/State, version 8 (SDWIS/State Version 8) is processed through the data validation and extraction program known as FedRep, which prepares and qualifies information for transmission through the DOH Environmental Health Administration (EHA) exchange network to EPA's Central Data Exchange (CDX) so inventory and compliance data may be submitted to EPA's SDWIS-Fed. From SDWIS Fed, the information will go into the federal data warehouse. Significant progress has been made migrating various sources of data into the system as we prepare to move to SDWIS

Web Release 1.0 (SWRL 1) and then to SDWIS Web Release 2.0 (SWRL 2).

Capacity Development Program

In response to the U.S. EPA's publication of a "National Capacity Development Strategic Plan" in January 2008, the Branch completed an update of the State's "Capacity Development Strategic Plan for Existing Public Water Systems" in June 2008. Additionally, the Branch revised its pre-construction and startup capacity evaluation guidance for the first time since October 2001, drawing on the lessons learned on past and existing projects, as well as providing more specific guidance to prospective water systems on how to better address TMF capacity issues in today's challenging economic and regulatory climate.

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. Originally covering privately-owned water systems serving under 3,300 persons, the contract was subsequently expanded to double the number of circuit rider visits per quarter, and allow circuit rider assistance to all systems statewide (except for county and military system serving over 10,000 people), resulting in an increased awareness of TMF needs statewide and a higher level of regulatory and compliance understanding by the assisted water systems.

The circuit rider - program provides 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.

Safe Drinking Water Branch staff has noted positive results 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 2008, the University of Hawai'i provided at least eight contact hours of training on Kauai, Oahu, Maui, Lanai, Molokai, and Hawai'i.

SDWB also worked with the National Rural Water Association to develop a Series of certification training courses that was offered on Oahu, Kauai, Molokai, Maui, and Hawaii, both Kona and Hilo. Fourteen

courses, each with 3 contact hours, were offered at every site for seven months.

Finally, a library of operator study guides and reference books was established to help operators or operators-in-training prepare or study for their operator certification exams. In a related effort to promote safety and continuing education, the SDWB arranged with the Department of Labor and Industrial Relations, Safety and Health Division Reference Library (a.k.a., Hawaii Occupational Safety and Health Division Reference Library) to house an extensive collection of DVDs on various safety topics in water systems operations.

SOLID AND HAZARDOUS WASTE BRANCH WASTE MANAGEMENT RECYCLING, MONITORING, AND PERMITTING IMPROVED

Used Oil Management and Recycling

The Solid and Hazardous Waste Branch (SHWB) provides oversight of contaminated facilities undergoing ground water monitoring (Chevron Refinery, Tesoro Refinery, Hawai'ian 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.

Special Waste Management

SHWB staff 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.

Management of Leaking Underground Storage Tank Sites

The SHWB total number of active Leaking Underground Storage Tank (LUST) sites is 226. The Environmental Health Specialist (EHS) III has an active caseload of 57 LUST sites at this time and provides project oversight to all remedial efforts of his cases. The EHS IV provides team unit leadership for three other EHS III staff. The EHS IV also works on additional active LUST sites.

Inspection of Underground Storage Tank Facilities

SHWB staff 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 overflow 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 traditional 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.

Assistance is provided 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.

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 July 2007, the Hazardous Waste Section has received and responded to 16 used oil related complaints.

ERRF FUNDING TO SPECIAL ENVIRONMENTAL PROGRAMS

During FY 2008, 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.

Environmental Crimes Enforcement Reorganization

The Environmental Crimes Unit (ECU) within the Department of the Attorney General was formally disbanded on June 30, 2008, after four plus years of operation. The mission of the ECU was to identify, apprehend, and successfully convict significant violators of environmental law. The ECU consisted of two investigators, and the Department of the Attorney General also assigned two deputy attorneys general to prosecute environmental crimes.

The ERRF funded the ECU for those four plus years with about \$170,000 per year. In 2008 DOH decided to shift funding to support clean energy in Hawaii, the Governor's top priority, and \$112,000 (Act 208/2008) of ERRF moneys will fund the new full time renewable energy facilitator position in DBEDT.

Although the ECU has been disbanded, criminal environmental law enforcement will continue. The Attorney General's Office will continue to investigate and vigorously prosecute environmental crimes. DOH will continue to refer cases to the AG for possible prosecution and supply information and expertise as needed. The only difference is that DOH will no longer have first call on 2 investigators' time, as they have been re-assigned to general detail. DOH will continue to collaborate with the U.S. EPA on cases and participate in the multi-agency Hawaii Environmental Enforcement Meetings led by EPA.

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

The ERRF 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.

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

The DOH funded the Hawai'i Energy Policy Forum (HEPF) based at the University of Hawai'i at Manoa during the period 2005 to 2008 through a HEER Office legislative appropriation of \$100,000 from ERRF. A final report was submitted to HEER Office in June 2008.

The HEPF brought together representatives from business, utilities, education, government, environmental organizations, and the community, including large energy customers for inclusive, collaborative energy planning and policymaking.

Ten Point Plan

1. Expand Renewable Energy Opportunities
2. Promote Conservation and Energy Efficiency
3. Reduce Green House Gas Emissions in Hawai'i
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

Through a process of discussion, research, and analysis, compromise, consensus, and collaboration, HPEF developed and implemented the forward-looking vision and a 10 Point Plan. The plan was implemented by actions such as meetings, workshops, forums, and briefings to legislators, governmental agencies. Studies and assessments were completed in response to legislative requests such as Biomass-and-Biofuels-to Power, Chicago Climate Exchange findings, and State of Hawai'i Energy Efficiency in Transportation Strategies. To facilitate energy efficiency and

renewable energy resources throughout the state, HEPF commissioned a study of all state and county laws to determine the obstacles to their implementation. A documentary, "Hawai'i Climate Crisis", was co-sponsored and aired three times in early 2008. A much requested DVD was distributed to 224 organizations and individuals, including policymakers.

HAWAII STATE RESPONSE PROGRAM SITE LIST

LIST OF HAWAII SITES ELIGIBLE FOR REMEDIAL ACTION UNDER THE EPA'S 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>
1.	Oahu	Kunia	Del Monte Oahu Plantation NPL Site
2.	Oahu	Pearl Harbor	Naval Computer and Telecommunication Area Master Station (NCTAMS)
3.	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>
1.	Hawaii	Hakalau	Hakalau Air Strip
2.	Hawaii	Pahala	Kau Sugar Company (Hawaiian Agricultural Company) Kau Sugar Mill
3.	Hawaii	Paauhau	Hamakua Sugar Company, Inc. Paauhau Seed Dipping Plant
4.	Hawaii	Paauilo	Paauilo Seed Dipping Plant Paauilo Seed Dipping Plant
5.	Hawaii	Pepeekeo	Pepeekeo Airstrip
6.	Kauai	Lihue	Lihue Plantation Combined Sites
7.	Oahu	Kunia	Del Monte Oahu Plantation Poamoho Tract Poamoho Rag Disposal Area
8.	Hawaii	Paauilo	Hamakua Mill Company Paauilo Sugar Mill
9.	Kauai	Lawai	Lawai Valley Cannery
10.	Hawaii	Hakalau	Mauna Kea Agribusiness Company Lands Hakalau Seed Dipping Plant
11.	Hawaii	Paauhau	Paauhau Sugar Plantation Paauhau Sugar Mill
12.	Hawaii	Papaikou	Papaikou Sugar Mill
13.	Kauai	Koloa	McBryde Sugar Company Lands Koloa Sugar Mill
14.	Maui	Olowalu	Pioneer Mill Co Ltd Olowalu Shaft Transformer Substation
15.	Maui	Lahaina	Pioneer Mill Co Ltd Launiupoko Transformer
16.	Maui	Paia	Paia Sugar Mill
17.	Hawaii	Waipunalei	Hamakua Sugar Company Waipunalei Seed Dipping Plant
18.	Maui	Kahului	E and E Black Contractors
19.	Oahu	Kailua	Kapaa Landfill

LIST OF HAWAII STATE RESPONSE PROGRAM PRIORITY 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.

The DOH Hawaii SRP List of Priority Sites shows 464 sites with potential or known hazardous substance or petroleum contamination. 35 sites were determined to require No Further Action (NFA). 17 of these closed sites have some residual contamination on site after cleanup that can be safely managed with use restrictions. HEER Office Remedial Project Managers (RPMs) continue active oversight on 405 assessment and response actions. An additional 24 sites are being overseen by other agencies or have low levels of contamination.

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.

Summary data presented in this section for the Hawaii State Response Program (SRP) includes all Hawaii sites identified for non-emergency response actions during FY 2008 and sites planned for file review for determination if an assessment or response action is required under HEER Office authority. 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 Sites,
2. Hawaii Brownfields Revitalization Sites (Brownfields),
3. Hawaii 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.

Response Program Activity Summary

<u>Program</u>	<u>Program Action</u>	<u>Site Status</u>				<u>Total</u>
		<u>NFA Unrestricted Use</u>	<u>NFA with Use Restrictions</u>	<u>Ongoing</u>	<u>Inactive</u>	
State	Assessment	11	2	259	8	280
	Response	5	9	94	15	123
Brownfields	Assessment	1		17		18
	Response		1	4		5
VRP	Assessment			1	1	2
	Response		5	11		16
PA/SI	Assessment	1		15		16
	Response			4		4
Totals		18	17	405	24	464

The Hawaii SRP List of Priority Sites is sorted in order of Island, Locality, the Program Area, and the Facility/Site Name. The site Status and Potential Hazard are also identified for each Facility/Site. Sites are categorized as a potential hazard when sampling data indicate that contaminant concentrations exceed Hawaii Environmental Action Levels. Generally, these conservative action levels are set to be protective of long term, daily exposures. Hazards are managed by removal or destruction of the contaminants (No Hazard), use restrictions that limit access to the contamination, (Institutional Controls), or physical barriers that limit exposure to the contaminants (Engineering Controls).

Hawaii State Response Program List of Priority Sites - FY 2008

HAWAII STATE RESPONSE PROGRAM SITE LIST

	<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Status</u>	<u>Program Action</u>	<u>Potential Hazard and Controls in Place</u>
1.	Hawaii	Haina	State	Hamakua Sugar Company, Inc - Haina Sugar Mill	Ongoing	Assessment	Hazard Managed With Institutional Controls
2.	Hawaii	Hakalau	PA/SI	Hakalau Air Strip	Inactive	Assessment	Hazard Undetermined
3.	Hawaii	Hakalau	PA/SI	Hakalau Sugar Plantation	Ongoing	Response	Hazard Undetermined
4.	Hawaii	Hamakua	State	Agent Orange Application	Ongoing	Assessment	Hazard Undetermined
5.	Hawaii	Hilo	Brownfields	Hilo Rubbish Dump	Inactive	Assessment	Hazard Undetermined
6.	Hawaii	Hilo	Brownfields	Kanoelehua Industrial Warehouse	Ongoing	Assessment	Hazard Undetermined
7.	Hawaii	Hilo	State	187 Silva Street	Ongoing	Response	Hazard Undetermined
8.	Hawaii	Hilo	State	Alamo Rent A Car, Hilo International Airport	Ongoing	Assessment	Hazard Undetermined
9.	Hawaii	Hilo	State	Aloha Petroleum Hilo Bulk Plant	Ongoing	Assessment	Hazard Undetermined
10.	Hawaii	Hilo	State	Bayside Chevron Service	Ongoing	Assessment	Hazard Managed With Institutional Controls
11.	Hawaii	Hilo	State	Big Island Asphalt Co Inc	Ongoing	Response	Hazard Present
12.	Hawaii	Hilo	State	Equilon Enterprises LLC - Hilo Terminal (Shell Oil Co)	Ongoing	Assessment	Hazard Undetermined
13.	Hawaii	Hilo	State	Haaheo Elementary School	Inactive	Response	Hazard Managed With Institutional Controls
14.	Hawaii	Hilo	State	Hatada Bakery (Former)	Ongoing	Response	Hazard Managed With Institutional Controls
15.	Hawaii	Hilo	State	Hawaii Cane Products Plant - Waiakea Pond	Ongoing	Assessment	Hazard Present
16.	Hawaii	Hilo	State	Hawaii Pest Control	Ongoing	Response	Hazard Undetermined
17.	Hawaii	Hilo	State	HELCO Pipeline Release Hualani Hilo	Ongoing	Assessment	Hazard Undetermined

HAWAII STATE RESPONSE PROGRAM SITE LIST

Hawai'i State Response Program List of Priority Sites - FY 2008

	<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Status</u>	<u>Program Action</u>	<u>Potential Hazard and Controls in Place</u>
18.	Hawaii	Hilo	State	Hilo Airport Aloha Airlines jet fuel spill	Ongoing	Assessment	Hazard Undetermined
19.	Hawaii	Hilo	State	Hilo Arsenic	Ongoing	Response	Hazard Managed With Engineering Controls
20.	Hawaii	Hilo	State	Hilo Bay Front Soccer Field	Ongoing	Assessment	Hazard Undetermined
21.	Hawaii	Hilo	State	Hilo Judiciary Center Project	Ongoing	Assessment	Hazard Managed With Engineering Controls
22.	Hawaii	Hilo	State	Hilo Quality Washerette	Ongoing	Assessment	Hazard Undetermined
23.	Hawaii	Hilo	State	Hilo Terminal 666 Kalaniana'ole Avenue	Ongoing	Assessment	Hazard Undetermined
24.	Hawaii	Hilo	State	Hilo Wood Treating, Inc.	Ongoing	Assessment	Hazard Undetermined
25.	Hawaii	Hilo	State	Kawailani Central Office	Ongoing	Assessment	Hazard Undetermined
26.	Hawaii	Hilo	State	Larry's Waiakea Chevron	Ongoing	Response	Hazard Undetermined
27.	Hawaii	Hilo	State	Stationers Corporation of Hawaii	Ongoing	Assessment	Hazard Undetermined
28.	Hawaii	Hilo	State	Tank 19	Ongoing	Assessment	Hazard Managed With Institutional Controls
29.	Hawaii	Hilo	State	Tesoro Hawaii Corporation Terminal Department - 595 Kalaniana'ole	Ongoing	Assessment	Hazard Undetermined
30.	Hawaii	Hilo	State	Tesoro Hawaii Corporation Terminal Department - 607 Kalaniana'ole	Ongoing	Assessment	Hazard Undetermined
31.	Hawaii	Hilo	State	Tesoro Hawaii Corporation Terminal Department - 701 Kalaniana'ole	Ongoing	Assessment	Hazard Undetermined
32.	Hawaii	Hilo	State	UH Hilo Pacific Aquaculture and Ocean Resources Center	Ongoing	Assessment	Hazard Undetermined

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33.	Hawaii	Hilo	State	University of Hawaii-Hilo Auto Shop	Ongoing	Assessment	Hazard Undetermined
34.	Hawaii	Hilo	State	Wailoa Small Boat Harbor	Ongoing	Assessment	Hazard Undetermined
35.	Hawaii	Hilo	State	Western Auto Hydraulic Oil	Ongoing	Assessment	Hazard Undetermined
36.	Hawaii	Hilo	State	Wood Protection Company (HPM Building Supply)	Ongoing	Assessment	Hazard Undetermined
37.	Hawaii	Hilo	State	Young Brothers, Pier 2, Hilo	Ongoing	Assessment	Hazard Undetermined
38.	Hawaii	Honokaa	State	DOH Honokaa	Ongoing	Assessment	Hazard Undetermined
39.	Hawaii	Honokaa	State	Hamakua Sugar Company Inc - Honokaa Airstrip	Ongoing	Assessment	Hazard Undetermined
40.	Hawaii	Honokaa	State	Hamakua Sugar Company Inc - Kawela Pesticide Mixing Area	Ongoing	Assessment	Hazard Undetermined
41.	Hawaii	Honokaa	State	Hamakua Sugar Company Inc - Paauhau Seed Cane Dipping Plant	Ongoing	Assessment	Hazard Undetermined
42.	Hawaii	Honokaa	State	Honokaa Medical Center Wastewater Treatment Plant	Inactive	Assessment	Hazard Present
43.	Hawaii	Kailua-Kona	State	Big Island Honda Mercedes Dealership	NFA	Response	Hazard Managed With Institutional Controls
44.	Hawaii	Kailua-Kona	State	Hawaii Petroleum- Kona Branch (Kona Warehouse & Cardlock)	Ongoing	Assessment	Hazard Undetermined
45.	Hawaii	Kailua-Kona	State	Honokohau Industrial Park-Lower Boat Park Soil Contamination	Ongoing	Assessment	Hazard Undetermined
46.	Hawaii	Kailua-Kona	State	Kona Village Resort	NFA	Response	Hazard Managed With Institutional Controls

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47.	Hawaii	Kailua-Kona	State	Snow White Linen, Former	Ongoing	Assessment	Hazard Managed With Engineering Controls
48.	Hawaii	Kamuela	State	Kamuela Baseyard	Ongoing	Assessment	Hazard Undetermined
49.	Hawaii	Kamuela	State	Waimea Quarry	Ongoing	Response	Hazard Undetermined
50.	Hawaii	Kawaihae	State	TOSCO Corporation-Kawaihae Terminal #0317	NFA	Assessment	No Hazard
51.	Hawaii	Keaau	Brownfields	Keaau Middle School	Ongoing	Assessment	Hazard Undetermined
52.	Hawaii	Keaau	State	Keaau Hotel Site	Inactive	Response	Hazard Managed With Engineering Controls
53.	Hawaii	Keaau	State	Keaau Paho Road 118 Acre Parcel	Inactive	Response	Hazard Present
54.	Hawaii	Keaau	State	Keaau Triangle Lot	Ongoing	Response	Hazard Present
55.	Hawaii	Keaau	State	Puna Sugar Mill	Ongoing	Assessment	Hazard Undetermined
56.	Hawaii	Kealakekua	State	Kona Community Hospital (Kona Hospital)	Ongoing	Assessment	Hazard Managed With Engineering Controls
57.	Hawaii	Keauhou	State	Keauhou Mechanics Yard	Ongoing	Assessment	Hazard Undetermined
58.	Hawaii	Kohala Coast	State	Former Meridian Hawaii Resort Transportation Facility	Ongoing	Assessment	Hazard Undetermined
59.	Hawaii	Kukaiau	State	Kukaiau pump system releases	Ongoing	Assessment	Hazard Undetermined
60.	Hawaii	Laupahoehoe	State	Hamakua Sugar Company, Inc - Papaaloa Pesticide Mixing Area	Ongoing	Assessment	Hazard Undetermined
61.	Hawaii	Mauna Kea	State	Canada France Hawaii Telescope Observatory	Inactive	Response	Hazard Managed With Engineering Controls

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62.	Hawaii	Naalehu	Brownfields	Residential Property 95-5579 Opukea Street	Ongoing	Assessment	Hazard Undetermined
63.	Hawaii	Naalehu	State	95-5572 Mamalahoa Highway	Ongoing	Assessment	Hazard Managed With Engineering Controls
64.	Hawaii	Naalehu	State	Hawaii Petroleum Distributors, Inc 200 Gallon Fuel Spill	Ongoing	Assessment	Hazard Undetermined
65.	Hawaii	Ookala	Brownfields	Ookala Gym and Ball Park	Ongoing	Assessment	Hazard Undetermined
66.	Hawaii	Paauhau	PA/SI	Hamakua Sugar Company, Inc - Paauhau Sugar Mill	Ongoing	Response	Hazard Undetermined
67.	Hawaii	Paauilo	PA/SI	Hamakua Sugar Company, Inc - Paauilo Seed Dipping Plant	Inactive	Assessment	Hazard Undetermined
68.	Hawaii	Paauilo	PA/SI	Hamakua Sugar Company, Inc - Paauilo Sugar Mill	Ongoing	Assessment	Hazard Undetermined
69.	Hawaii	Paauilo	State	Hamakua Sugar Company, Inc - Ookala Fuel Station	Ongoing	Assessment	Hazard Undetermined
70.	Hawaii	Paauilo	State	Hawaiian Sugar Planters' Association Research Station - Paauilo	Ongoing	Assessment	Hazard Undetermined
71.	Hawaii	Paauilo	State	Mauna Kea Ranch Overspill Spillage	Inactive	Assessment	Hazard Undetermined
72.	Hawaii	Pahala	PA/SI	Kau Sugar Mill	Ongoing	Assessment	Hazard Undetermined
73.	Hawaii	Pahala	State	ML Macadamia Orchards, LP (Kau Div)	Ongoing	Response	Hazard Managed With Engineering Controls
74.	Hawaii	Papaikou	PA/SI	Hamakua Sugar Company, Inc - Papaikou	Ongoing	Assessment	Hazard Undetermined
75.	Hawaii	Pepeekeo	PA/SI	Pepeekeo Airstrip	Inactive	Response	Hazard Undetermined
76.	Hawaii	Pepeekeo	State	Black Oil and Drum Sites	Ongoing	Response	Hazard Present

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77.	Hawaii	Pepeekeo	State	Hilo Coast Power Company Diesel Fuel Storage Tank	Ongoing	Assessment	Hazard Undetermined
78.	Hawaii	Pepeekeo	State	Petroleum Impacted Soil Downslope of Former HCPC Maintenance Garage	Ongoing	Response	Hazard Present
79.	Hawaii	South Kona	State	Kamehameha Schools Estoy Property	Ongoing	Response	Hazard Present
80.	Hawaii	Volcano	State	Hawaii Volcanoes National Park Aboveground Storage Tank	Ongoing	Assessment	Hazard Undetermined
81.	Hawaii	Waimea	State	Waimea Chevron Food Mart	Ongoing	Assessment	Hazard Undetermined
82.	Hawaii	Waimea	State	Waimea Landfill	Ongoing	Assessment	Hazard Undetermined
83.	Hawaii	Waipunalei	PA/SI	Hamakua Sugar Company, Inc - Waipunalei	Ongoing	Assessment	Hazard Managed With Institutional Controls
84.	Kauai	Barking Sands	State	Kauai Test Facility	Ongoing	Assessment	Hazard Undetermined
85.	Kauai	Ele'ele	State	UST Release at Port Allen	Ongoing	Response	Hazard Present
86.	Kauai	Hanapepe	State	Sakoda Garage	Ongoing	Response	Hazard Present
87.	Kauai	Kalaheo	State	Kalaheo Elementary Phase 1	Ongoing	Assessment	Hazard Undetermined
88.	Kauai	Kapaa	State	Leonard's, Inc	Ongoing	Assessment	Hazard Undetermined
89.	Kauai	Kapaa	State	Waiakea Road Water Main	Ongoing	Assessment	Hazard Undetermined
90.	Kauai	Kapaa	State	Wailua Homestead Wells 0421-01& 02	Ongoing	Assessment	Hazard Undetermined
91.	Kauai	Kekaha	State	Kekaha Landfill	Ongoing	Assessment	Hazard Undetermined
92.	Kauai	Kekaha	State	Kekaha Sugar Co, Ltd	Ongoing	Response	Hazard Present
93.	Kauai	Kekaha	State	Kekaha Sugar Co, Ltd - Kekaha Wood Treatment Plant	Ongoing	Response	Hazard Managed With Engineering Controls

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94.	Kauai	Koloa	PA/SI	McBride Sugar Company Power Plant 5 Gallon Oil Spill (north shore)	Ongoing	Assessment	Hazard Undetermined
95.	Kauai	Lawai	PA/SI	Lawai Valley Cannery	Ongoing	Assessment	Hazard Undetermined
96.	Kauai	Lihue	Brownfields	Anahola Project Faith	NFA	Response	Hazard Managed With Institutional Controls
97.	Kauai	Lihue	Brownfields	Lihue Plantation Co, Ltd	Ongoing	Assessment	Hazard Present
98.	Kauai	Lihue	State	Gary's Service Station	NFA	Response	No Hazard
99.	Kauai	Lihue	State	Island Self Storage	Ongoing	Assessment	Hazard Managed With Institutional Controls
100.	Kauai	Lihue	State	Koamalu Plantation LLC Condominium	Ongoing	Assessment	Hazard Undetermined
101.	Kauai	Lihue	State	Lihue Airport Aircraft Rescue and Fire Fighting Training Area	Ongoing	Assessment	Hazard Managed With Institutional Controls
102.	Kauai	Lihue	State	Nawiliwili Fuel Distribution Terminal	Ongoing	Assessment	Hazard Undetermined
103.	Kauai	Lihue	State	Nawiliwili Harbor Pier 1 Fuel Contamination	Ongoing	Assessment	Hazard Undetermined
104.	Kauai	Lihue	State	Nawiliwili Harbor Pier 2 Oil Spill	Ongoing	Assessment	Hazard Undetermined
105.	Kauai	Lihue	State	Nawiliwili Harbor Pier 3 Bollard Foundation Construction	Ongoing	Assessment	Hazard Undetermined
106.	Kauai	Lihue	State	Nawiliwili Harbor Pier 3 Improvements	Ongoing	Assessment	Hazard Undetermined
107.	Kauai	Lihue	VRP	Honsador Lumber Facility Nawiliwili	NFA	Response	Hazard Managed With Engineering Controls
108.	Kauai	Lihue, Hawaii	State	Former Ahukini Dump	Ongoing	Response	Hazard Undetermined

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109.	Kauai	Puhi	State	Brewer Environmental Industries-Kaumualii Highway	Ongoing	Response	Hazard Present
110.	Kauai	Wailua	State	Coco Palms Sewage Pump Station	Ongoing	Assessment	Hazard Undetermined
111.	Kauai	Wailua	State	Kauai Agricultural Research Center (Agent Orange/Pesticide Sites)	Ongoing	Response	Hazard Present
112.	Kauai	Waimea	State	Kauai Veterans Memorial Hospital	Ongoing	Assessment	Hazard Undetermined
113.	Kauai	Waimea	State	Kokee Air Force Station	Ongoing	Response	Hazard Undetermined
114.	Kauai	Waimea	State	Meadow Gold Dairies, Inc- Waimea	Ongoing	Response	Hazard Undetermined
115.	Kauai	Waimea	State	Waimea Hospital Property	Ongoing	Assessment	Hazard Undetermined
116.	Kure Atoll	Kure Atoll	State	Kure Atoll, U.S. Coast Guard	Ongoing	Response	Hazard Managed With Engineering Controls
117.	Maui	Haiku	State	Pesticide Storage Site Removals Haiku	Ongoing	Assessment	Hazard Undetermined
118.	Maui	Haiku	State	Pesticide Storage Site Removals Pauwela	Ongoing	Assessment	Hazard Undetermined
119.	Maui	Haliimaile	State	Maui Pineapple Co Ltd, Haliimaile Road	Ongoing	Assessment	Hazard Undetermined
120.	Maui	Kahului	PA/SI	E & E Black Contractors	Ongoing	Assessment	Hazard Present
121.	Maui	Kahului	State	Alii Linen Service (fka Snow White Linen)	Ongoing	Response	Hazard Managed With Engineering Controls
122.	Maui	Kahului	State	Bird Builders	Ongoing	Assessment	Hazard Undetermined
123.	Maui	Kahului	State	Central Power Plant Electrical Substation and Transformer Storage Yard	Ongoing	Assessment	Hazard Undetermined
124.	Maui	Kahului	State	Fong Construction	Ongoing	Assessment	Hazard Undetermined
125.	Maui	Kahului	State	Hawaii Wood Preserving Co.	Ongoing	Assessment	Hazard Undetermined

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126.	Maui	Kahului	State	Hobron Ave Area (Kahului)	Ongoing	Assessment	Hazard Undetermined
127.	Maui	Kahului	State	Kahului Fuel Distribution Terminal	Ongoing	Assessment	Hazard Undetermined
128.	Maui	Kahului	State	Kahului Terminal	Ongoing	Assessment	Hazard Undetermined
129.	Maui	Kahului	State	Kanaha Pond Industrial West Site	Ongoing	Assessment	Hazard Undetermined
130.	Maui	Kahului	State	Maui Business Park Oil Contamination	Ongoing	Assessment	Hazard Undetermined
131.	Maui	Kahului	State	Maui Well No. 5	Ongoing	Assessment	Hazard Undetermined
132.	Maui	Kahului	State	MECO Pole-Mount Transformer No. 6930	Ongoing	Assessment	Hazard Undetermined
133.	Maui	Kahului	State	Rainbow Hauling	Ongoing	Assessment	Hazard Undetermined
134.	Maui	Kahului	State	Sears Auto Center	Ongoing	Assessment	Hazard Undetermined
135.	Maui	Kahului	State	VIP Warehouse	Ongoing	Assessment	Hazard Undetermined
136.	Maui	Kihei	State	Kihei Union 76 Service (No.4655)	NFA	Response	Hazard Managed With Institutional Controls
137.	Maui	Kihei	State	Selland Construction Inc, Kihei Base Yard	Inactive	Response	Hazard Undetermined
138.	Maui	Lahaina	PA/SI	Kamehameha Schools Lahainaluna Road Transformers	Inactive	Assessment	Hazard Undetermined
139.	Maui	Lahaina	PA/SI	Launiupoko Transformer	Inactive	Assessment	Hazard Undetermined
140.	Maui	Lahaina	State	Ammonia Dumping, Maui Disposal Co.	Ongoing	Assessment	Hazard Undetermined
141.	Maui	Lahaina	State	Kapalua Resort Company	Ongoing	Assessment	Hazard Undetermined
142.	Maui	Lahaina	State	MECO submersible Transformer No. 4726	Ongoing	Assessment	Hazard Undetermined
143.	Maui	Lahaina	State	MECO Transformer Site	Ongoing	Assessment	Hazard Undetermined
144.	Maui	Lahaina	State	Puukolii Old Pioneer Mill Transformers	Inactive	Assessment	Hazard Undetermined

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145.	Maui	Lahaina	State	Shaw Street Old Pioneer Mill Transformers	Ongoing	Response	Hazard Present
146.	Maui	Maalaea	State	Maalaea 710 Acre and 906 Acre Site	Inactive	Assessment	Hazard Undetermined
147.	Maui	Maalaea	State	Maalaea Mauka	Inactive	Assessment	Hazard Undetermined
148.	Maui	Maalaea	State	MECO Generating Station Maalaea	NFA	Response	No Hazard
149.	Maui	Olowalu	PA/SI	Luawai Road Transformer	Ongoing	Assessment	Hazard Undetermined
150.	Maui	Olowalu	PA/SI	Olowalu Shaft Transformer Substation	Inactive	Assessment	Hazard Undetermined
151.	Maui	Paia	PA/SI	Paia Sugar Mill	Ongoing	Assessment	Hazard Undetermined
152.	Maui	Pukalani	VRP	Maui Pineapple Co Ltd, Corn Mill Camp	Inactive	Assessment	Hazard Present
153.	Maui	Puunene	State	Hawaiian Commercial & Sugar Company	Ongoing	Assessment	Hazard Undetermined
154.	Maui	Puunene	State	Maui Wood Treating Co Ltd	Ongoing	Assessment	Hazard Undetermined
155.	Maui	Puunene	State	Old Puunene Airport Soil Contamination	Ongoing	Assessment	Hazard Undetermined
156.	Maui	Puunene	State	Puunene Sugar Mill	Ongoing	Assessment	Hazard Managed With Engineering Controls
157.	Maui	Wailuku	State	MECO Transformer 7597	Ongoing	Assessment	Hazard Undetermined
158.	Maui	Wailuku	State	Valley Isle Motors LUST	Ongoing	Assessment	Hazard Undetermined
159.	Maui	Wailuku	State	Waiale Ash Pile	Ongoing	Response	Hazard Present
160.	Maui	Wailuku	State	Y Hata- Maui	Ongoing	Assessment	Hazard Undetermined
161.	Molokai	Hoolehua	State	Grace Pacific Corporation Manawainui, Molokai Facility	Ongoing	Response	Hazard Present
162.	Molokai	Kanunakakai	State	Kalamaula Landfill	Ongoing	Assessment	Hazard Managed With Engineering Controls

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163.	Molokai	Kaunakakai	Brownfields	Molokai Community Service Center	Ongoing	Response	Hazard Present
164.	Molokai	Kaunakakai	State	Hawaiian Eye Center	Ongoing	Assessment	Hazard Undetermined
165.	Molokai	Kaunakakai	State	Island Petroleum, Inc (Kaunakakai Terminal)	Ongoing	Response	Hazard Undetermined
166.	Molokai	Kaunakakai	State	Rawlins' Chevron Service	NFA	Response	No Hazard
167.	Oahu		State	Dillingham Military Reservation, Former Transformer Site	Ongoing	Assessment	Hazard Undetermined
168.	Oahu		State	Fort Barrette, Safety Hazard Removal	Ongoing	Assessment	Hazard Undetermined
169.	Oahu		State	Fort DeRussy, Former Leaking UST Site (Bldg 107 & 108)	Ongoing	Assessment	Hazard Undetermined
170.	Oahu		State	Kahuku Training Area, Former Transformer Site	Ongoing	Assessment	Hazard Undetermined
171.	Oahu	Aiea	State	Aiea Stream	Ongoing	Assessment	Hazard Undetermined
172.	Oahu	Aiea	State	Grace Pacific Corporation - Halawa Valley Street	Ongoing	Response	Hazard Present
173.	Oahu	Aiea	State	Halawa Animal Quarantine Station	Ongoing	Assessment	Hazard Managed With Engineering Controls
174.	Oahu	Aiea	State	Hawaii Baking Company	Ongoing	Assessment	Hazard Undetermined
175.	Oahu	Aiea	State	HECO Transformer 52091	Ongoing	Assessment	Hazard Undetermined
176.	Oahu	Aiea	State	Sears Facility #1578 at Pearlridge Mall Elevator Jack	Ongoing	Assessment	Hazard Managed With Engineering Controls
177.	Oahu	Aiea	State	Sears Facility #1578 at Pearlridge Mall Hydraulic Hoist	Ongoing	Response	Hazard Present
178.	Oahu	Aiea	VRP	Aiea Sugar Mill Lots 6-14	Ongoing	Response	Hazard Managed With Institutional Controls

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179.	Oahu	Ewa	Brownfields	Ewa Mill Manager's Mansion and Three-House Camp	Ongoing	Assessment	Hazard Undetermined
180.	Oahu	Ewa Beach	State	Ewa Sugar Mill/Oahu Sugar Co. - Coral Wastepit	Ongoing	Assessment	Hazard Undetermined
181.	Oahu	Ewa Beach	State	Ewa Sugar Mill/Oahu Sugar Co. - Fumigant Storage Area	Ongoing	Assessment	Hazard Undetermined
182.	Oahu	Ewa Beach	State	Ewa Sugar Mill/Oahu Sugar Co. - Pesticide Mixing/Loading Site	Ongoing	Response	Hazard Managed With Engineering Controls
183.	Oahu	Ewa Beach	State	Leeward Auto Wreckers, Inc	Ongoing	Assessment	Hazard Undetermined
184.	Oahu	Ewa Beach	State	Palalail Landfill	Ongoing	Response	Hazard Managed With Engineering Controls
185.	Oahu	Haleiwa	State	Haleiwa Chevron (OK Chevron)	Inactive	Assessment	Hazard Undetermined
186.	Oahu	Haleiwa	State	Haleiwa Chevron (OK Chevron)	Inactive	Assessment	Hazard Undetermined
187.	Oahu	Haleiwa	State	Twin Bridge Road Drum Dumping-Haleiwa	Ongoing	Response	Hazard Undetermined
188.	Oahu	Haleiwa	State	Waimea Valley Adventure Park	Ongoing	Assessment	Hazard Undetermined
189.	Oahu	Honolulu	Brownfields	Cannon Club	Inactive	Assessment	Hazard Undetermined
190.	Oahu	Honolulu	Brownfields	Kakaako Brownfield Project	Ongoing	Assessment	Hazard Undetermined
191.	Oahu	Honolulu	Brownfields	Kakaako Brownfield Project - Unit 10	Ongoing	Assessment	Hazard Managed With Engineering Controls
192.	Oahu	Honolulu	Brownfields	Kakaako Brownfield Project - Unit 2	Ongoing	Assessment	Hazard Managed With Engineering Controls

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193.	Oahu	Honolulu	Brownfields	Kakaako Brownfield Project - Unit 4	Ongoing	Assessment	Hazard Managed With Engineering Controls
194.	Oahu	Honolulu	Brownfields	Kakaako Brownfield Project - Unit 5	Ongoing	Assessment	Hazard Managed With Engineering Controls
195.	Oahu	Honolulu	Brownfields	Kakaako Brownfield Project - Unit 6	Ongoing	Response	Hazard Managed With Engineering Controls
196.	Oahu	Honolulu	Brownfields	Kakaako Brownfield Project - Unit 9	Ongoing	Assessment	Hazard Managed With Engineering Controls
197.	Oahu	Honolulu	Brownfields	Kuhio Park Terrace Units D1 and D2	Ongoing	Response	Hazard Undetermined
198.	Oahu	Honolulu	Brownfields	Sand Island State Recreation Area	Ongoing	Assessment	Hazard Undetermined
199.	Oahu	Honolulu	State	158 Sand Island Access Rd	Ongoing	Response	Hazard Undetermined
200.	Oahu	Honolulu	State	180 Sand Island Access Rd	Ongoing	Response	Hazard Undetermined
201.	Oahu	Honolulu	State	2135 Auiki St	Ongoing	Response	Hazard Undetermined
202.	Oahu	Honolulu	State	2147 Aoao Street	Ongoing	Assessment	Hazard Undetermined
203.	Oahu	Honolulu	State	218 Mohonua Place	Ongoing	Response	Hazard Undetermined
204.	Oahu	Honolulu	State	2250 Pahounui Drive	Ongoing	Response	Hazard Undetermined
205.	Oahu	Honolulu	State	2326 Kalihi Street UST	Ongoing	Assessment	Hazard Managed With Engineering Controls
206.	Oahu	Honolulu	State	373 North Nimitz Highway	Ongoing	Response	Hazard Present

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207.	Oahu	Honolulu	State	420-470 North Nimitz Highway	Ongoing	Response	Hazard Managed With Engineering Controls
208.	Oahu	Honolulu	State	580 North Nimitz Highway	Inactive	Response	Hazard Managed With Engineering Controls
209.	Oahu	Honolulu	State	595 Ala Moana Black Oil Pipeline	Ongoing	Assessment	Hazard Undetermined
210.	Oahu	Honolulu	State	861-869 North Nimitz Highway	Ongoing	Assessment	Hazard Managed With Engineering Controls
211.	Oahu	Honolulu	State	ABC Disposal Company	NFA	Assessment	No Hazard
212.	Oahu	Honolulu	State	Aircraft Service International Group - Sand Island (ASIG)	Ongoing	Response	Hazard Undetermined
213.	Oahu	Honolulu	State	Airport Group International	Ongoing	Assessment	Hazard Undetermined
214.	Oahu	Honolulu	State	Airport Service International Group- Airport	Ongoing	Assessment	Hazard Undetermined
215.	Oahu	Honolulu	State	Ala Moana #2 WWPS	Ongoing	Assessment	Hazard Managed With Institutional Controls
216.	Oahu	Honolulu	State	Ala Wai Cove Condominium Apartments	Ongoing	Assessment	Hazard Undetermined
217.	Oahu	Honolulu	State	Alii #3282	Ongoing	Response	Hazard Present
218.	Oahu	Honolulu	State	Allstate Industrial & Marine Cleaning, Inc.	Ongoing	Response	Hazard Present
219.	Oahu	Honolulu	State	Aloha 7-Eleven City Square	Ongoing	Assessment	Hazard Undetermined
220.	Oahu	Honolulu	State	Aloha Petroleum Terminal	Ongoing	Response	Hazard Present

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221.	Oahu	Honolulu	State	AlSCO (American Linen) Tank	Inactive	Response	Hazard Managed With Institutional Controls
222.	Oahu	Honolulu	State	Ama Neighborhood	Ongoing	Assessment	Hazard Undetermined
223.	Oahu	Honolulu	State	ARCO AM/PM #82102 (Texaco 61-100-0043)	Ongoing	Response	Hazard Undetermined
224.	Oahu	Honolulu	State	ARCO AM/PM #82111 (Texaco 61-100-0045)	Ongoing	Assessment	Hazard Undetermined
225.	Oahu	Honolulu	State	BHP Gasco Benzene Site	Ongoing	Response	Hazard Present
226.	Oahu	Honolulu	State	BMW of Honolulu	Ongoing	Assessment	Hazard Managed With Engineering Controls
227.	Oahu	Honolulu	State	BTU Storage Tanks Pier 19	Ongoing	Response	Hazard Present
228.	Oahu	Honolulu	State	Chevron Honolulu Terminal Marine	Ongoing	Response	Hazard Present
229.	Oahu	Honolulu	State	Chevron Honolulu Transportation Terminal	Ongoing	Response	Hazard Managed With Engineering Controls
230.	Oahu	Honolulu	State	Chevron Kapalama Northeast Parcel	Ongoing	Response	Hazard Present
231.	Oahu	Honolulu	State	Chevron Kapalama Northwest Parcel	Ongoing	Response	Hazard Present
232.	Oahu	Honolulu	State	Chevron Kapalama Southwest Parcel	Ongoing	Assessment	Hazard Managed With Institutional Controls
233.	Oahu	Honolulu	State	Chevron Kapalama Terminal	Ongoing	Response	Hazard Present
234.	Oahu	Honolulu	State	Chevron Pier 35 Pipeline Release	Ongoing	Response	Hazard Managed With Engineering Controls

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235.	Oahu	Honolulu	State	Chuei Shokoh, Inc.	Ongoing	Assessment	Hazard Managed With Institutional Controls
236.	Oahu	Honolulu	State	Citizens Energy Services Pier 38	Ongoing	Response	Hazard Managed With Engineering Controls
237.	Oahu	Honolulu	State	City Mill Company, Ltd.	NFA	Response	Hazard Managed With Institutional Controls
238.	Oahu	Honolulu	State	Cooke Street Lead Contamination	Ongoing	Assessment	Hazard Managed With Engineering Controls
239.	Oahu	Honolulu	State	Cutter Dodge Dillingham	Inactive	Response	Hazard Present
240.	Oahu	Honolulu	State	DLNR Buried Drum Site	Ongoing	Assessment	Hazard Managed With Institutional Controls
241.	Oahu	Honolulu	State	Dole Iwilei	Ongoing	Assessment	Hazard Undetermined
242.	Oahu	Honolulu	State	Domestic Commercial Fishing Village	Ongoing	Response	Hazard Managed With Engineering Controls
243.	Oahu	Honolulu	State	Durant Properties	Ongoing	Assessment	Hazard Undetermined
244.	Oahu	Honolulu	State	Equilon Enterprises LLC Honolulu Terminal	Ongoing	Response	Hazard Present
245.	Oahu	Honolulu	State	Factory Street Lead	Ongoing	Assessment	Hazard Managed With Engineering Controls
246.	Oahu	Honolulu	State	Farrington High School	Ongoing	Assessment	Hazard Undetermined

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247.	Oahu	Honolulu	State	Former Kalakaua Transmission Inc	Ongoing	Assessment	Hazard Managed With Engineering Controls
248.	Oahu	Honolulu	State	Fort Ruger Former Firing Ranges	NFA	Response	Hazard Managed With Institutional Controls
249.	Oahu	Honolulu	State	Grace Otsuka Apartment Complex	NFA	Response	Hazard Managed With Engineering Controls
250.	Oahu	Honolulu	State	GTE Base Yard Sump	Inactive	Assessment	Hazard Undetermined
251.	Oahu	Honolulu	State	GTE Hawaiian Tel - Contaminated Soil	NFA	Response	Hazard Managed With Engineering Controls
252.	Oahu	Honolulu	State	GTE-Hawaiian Tel Employees Federal Credit Union (HTEFCU)	Ongoing	Assessment	Hazard Managed With Engineering Controls
253.	Oahu	Honolulu	State	Hagadone Printing Company Sand Island	Ongoing	Assessment	Hazard Managed With Institutional Controls
254.	Oahu	Honolulu	State	Hakuyosha Hawaii, Inc	Ongoing	Response	Hazard Managed With Engineering Controls
255.	Oahu	Honolulu	State	Hale Pua Nui UST Removal	Ongoing	Assessment	Hazard Undetermined
256.	Oahu	Honolulu	State	Hall Mark Dry Cleaners	Ongoing	Assessment	Hazard Undetermined
257.	Oahu	Honolulu	State	Hart Street WWPS	Ongoing	Response	Hazard Present
258.	Oahu	Honolulu	State	Hawaii Fueling Facilities Corporation-Sand Island Access Road	Ongoing	Assessment	Hazard Undetermined

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259.	Oahu	Honolulu	State	Hawaii Grain Corporation	Ongoing	Assessment	Hazard Undetermined
260.	Oahu	Honolulu	State	Hawaii Hall	Ongoing	Assessment	Hazard Undetermined
261.	Oahu	Honolulu	State	Hawaii Instrumentation & Controls, Inc	Ongoing	Assessment	Hazard Undetermined
262.	Oahu	Honolulu	State	Hawaii Job Corps Center	Ongoing	Assessment	Hazard Undetermined
263.	Oahu	Honolulu	State	Hawaii Mercury	Ongoing	Response	Hazard Present
264.	Oahu	Honolulu	State	Hawaii Metal Recycling Company Pier 35	Ongoing	Response	Hazard Managed With Institutional Controls
265.	Oahu	Honolulu	State	Hawaii Staging and Lighting	Ongoing	Assessment	Hazard Undetermined
266.	Oahu	Honolulu	State	Hawaii Stevedores	Ongoing	Response	Hazard Present
267.	Oahu	Honolulu	State	Hawaii Transfer Company, Ltd Pier 36	Ongoing	Response	Hazard Present
268.	Oahu	Honolulu	State	Hawaiian Bitumuls Paving & Precast Company, Sand Island Access Road	Ongoing	Assessment	Hazard Managed With Institutional Controls
269.	Oahu	Honolulu	State	Hawaiian Electric Company (HECO) - Iwilei Tank Yard	Ongoing	Response	Hazard Managed With Engineering Controls
270.	Oahu	Honolulu	State	Hawaiian Electric Company (HECO)- Honolulu Generating Station	Ongoing	Assessment	Hazard Undetermined
271.	Oahu	Honolulu	State	Hawaiian Flour Mill	Ongoing	Response	Hazard Present
272.	Oahu	Honolulu	State	Hawaiian Fluid Power Company	Ongoing	Response	Hazard Managed With Institutional Controls
273.	Oahu	Honolulu	State	Hawaiian Tug & Barge Corporation	Inactive	Assessment	Hazard Undetermined

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274.	Oahu	Honolulu	State	HCDA/UH Health and Wellness Center	Ongoing	Assessment	Hazard Managed With Institutional Controls
275.	Oahu	Honolulu	State	HECO Fuel Oil Pipeline Route State Energy Corridor	Ongoing	Assessment	Hazard Undetermined
276.	Oahu	Honolulu	State	HECO Soil Contamination Chapin Lane and Kapiolani Boulevard	Inactive	Assessment	Hazard Managed With Engineering Controls
277.	Oahu	Honolulu	State	HECO Substation: Pukele Substation	Ongoing	Assessment	Hazard Undetermined
278.	Oahu	Honolulu	State	HECO Transformer 26127	Ongoing	Assessment	Hazard Undetermined
279.	Oahu	Honolulu	State	Hertz Rent A Car, Vehicle Maintenance Facility	Ongoing	Assessment	Hazard Managed With Engineering Controls
280.	Oahu	Honolulu	State	Honolulu International Airport (HIA)	Ongoing	Assessment	Hazard Undetermined
281.	Oahu	Honolulu	State	Honolulu Shipyard, Inc	Inactive	Response	Hazard Undetermined
282.	Oahu	Honolulu	State	Iolani School Petroleum odor	Ongoing	Assessment	Hazard Undetermined
283.	Oahu	Honolulu	State	Island Movers, Inc	Ongoing	Assessment	Hazard Undetermined
284.	Oahu	Honolulu	State	Iwilei Business Center	Inactive	Response	Hazard Managed With Institutional Controls
285.	Oahu	Honolulu	State	Iwilei Project Site (Iwilei Brownfields)	Inactive	Response	Hazard Present
286.	Oahu	Honolulu	State	Iwilei Texaco	Inactive	Response	Hazard Present
287.	Oahu	Honolulu	State	Kakaako Brownfield Project - Unit 7	Ongoing	Response	Hazard Managed With Engineering Controls

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288.	Oahu	Honolulu	State	Kakaako Brownfield Project - Unit 8	Ongoing	Response	Hazard Managed With Engineering Controls
289.	Oahu	Honolulu	State	Kakaako Makai District Parking Garage-Unit 1and 3	Ongoing	Response	Hazard Managed With Engineering Controls
290.	Oahu	Honolulu	State	Kakaako Pump Station	Ongoing	Response	Hazard Present
291.	Oahu	Honolulu	State	Kalani, Hart, Mokuaea Street, Honolulu, Hawaii	Ongoing	Response	Hazard Present
292.	Oahu	Honolulu	State	Kalihi Texaco	Ongoing	Assessment	Hazard Undetermined
293.	Oahu	Honolulu	State	Kamehameha Schools	Ongoing	Assessment	Hazard Managed With Engineering Controls
294.	Oahu	Honolulu	State	Kapalama Incinerator Off-Site Contamination	Ongoing	Assessment	Hazard Undetermined
295.	Oahu	Honolulu	State	Keehi Lagoon Canoe Facility, Increment II	Ongoing	Assessment	Hazard Managed With Engineering Controls
296.	Oahu	Honolulu	State	Kewalo Incinerator Ash Dump	Ongoing	Assessment	Hazard Present
297.	Oahu	Honolulu	State	Kewalo Incinerator Landfill	Ongoing	Assessment	Hazard Present
298.	Oahu	Honolulu	State	Koolani Tower Project	Ongoing	Assessment	Hazard Managed With Engineering Controls
299.	Oahu	Honolulu	State	Lance Goya's Chevron Service (Tom Tomita's Chevron)	Ongoing	Response	Hazard Present
300.	Oahu	Honolulu	State	Lockheed Air Terminal, Inc	Ongoing	Assessment	Hazard Undetermined

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301.	Oahu	Honolulu	State	Longs Drugs Stores Warehouse	Ongoing	Assessment	Hazard Managed With Institutional Controls
302.	Oahu	Honolulu	State	Lyon Arboretum Cottages A and G	Ongoing	Assessment	Hazard Undetermined
303.	Oahu	Honolulu	State	Matson Navigation Terminal	Ongoing	Assessment	Hazard Undetermined
304.	Oahu	Honolulu	State	McCabe, Hamilton, & Renny Company, Ltd	Inactive	Response	Hazard Undetermined
305.	Oahu	Honolulu	State	Meadow Gold Dairies (Ice Cream Plant)	NFA	Assessment	No Hazard
306.	Oahu	Honolulu	State	Middle Street Intermodal Center	Ongoing	Response	Hazard Undetermined
307.	Oahu	Honolulu	State	Mid-Pacific Institute	Ongoing	Assessment	Hazard Undetermined
308.	Oahu	Honolulu	State	Miyazaki Honolulu Airport Service Station (Airways Service Station Inc)	Ongoing	Assessment	Hazard Undetermined
309.	Oahu	Honolulu	State	Moanalua Medical Center and Clinic	Ongoing	Response	Hazard Present
310.	Oahu	Honolulu	State	Moanalua Valley Parcel	Ongoing	Assessment	Hazard Managed With Institutional Controls
311.	Oahu	Honolulu	State	Motor Imports	Ongoing	Assessment	Hazard Managed With Institutional Controls
312.	Oahu	Honolulu	State	Motor Supply	Ongoing	Assessment	Hazard Managed With Engineering Controls
313.	Oahu	Honolulu	State	National Car Rental System, Inc. North Nimitz Highway	NFA	Assessment	No Hazard
314.	Oahu	Honolulu	State	Nestle USA	Ongoing	Response	Hazard Present
315.	Oahu	Honolulu	State	Nimitz Highway Water Improvement Project Sumner to Queen	Ongoing	Response	Hazard Present

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316.	Oahu	Honolulu	State	Pauley Petroleum	Ongoing	Assessment	Hazard Managed With Engineering Controls
317.	Oahu	Honolulu	State	PHT, Inc. dba Polynesian Hospitality	Inactive	Response	Hazard Undetermined
318.	Oahu	Honolulu	State	Pukoloa Wood Treating Site	Ongoing	Assessment	Hazard Undetermined
319.	Oahu	Honolulu	State	Punahou School Firing Range	Ongoing	Response	Hazard Present
320.	Oahu	Honolulu	State	Queen Emmalani Tower	Ongoing	Assessment	Hazard Managed With Engineering Controls
321.	Oahu	Honolulu	State	Resource Recovery, Ltd.	Ongoing	Assessment	Hazard Managed With Institutional Controls
322.	Oahu	Honolulu	State	Richard's Chevron	Ongoing	Response	Hazard Undetermined
323.	Oahu	Honolulu	State	Roberts Hawaii	Ongoing	Assessment	Hazard Managed With Engineering Controls
324.	Oahu	Honolulu	State	Roger's Chevron	NFA	Assessment	No Hazard
325.	Oahu	Honolulu	State	Royal Gardens Hotel Diesel	NFA	Assessment	No Hazard
326.	Oahu	Honolulu	State	Sand Island Industrial Park	Ongoing	Assessment	Hazard Managed With Institutional Controls
327.	Oahu	Honolulu	State	Sand Island WWTP	Inactive	Response	Hazard Present
328.	Oahu	Honolulu	State	Sand Island WWTP Mokuone Electrical Substation	Ongoing	Assessment	Hazard Managed With Engineering Controls
329.	Oahu	Honolulu	State	Sause Brothers	Ongoing	Response	Hazard Present

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330.	Oahu	Honolulu	State	Sea-Land Service	Ongoing	Assessment	Hazard Undetermined
331.	Oahu	Honolulu	State	Servco Pacific, Inc-Kalihi	Ongoing	Assessment	Hazard Undetermined
332.	Oahu	Honolulu	State	Shell Service Station (Sierra Shell Service)	Ongoing	Assessment	Hazard Undetermined
333.	Oahu	Honolulu	State	Shidler College of Business Site Improvements	Ongoing	Assessment	Hazard Undetermined
334.	Oahu	Honolulu	State	Shizuko & Masuo Hamaoka Trusts	Ongoing	Assessment	Hazard Managed With Institutional Controls
335.	Oahu	Honolulu	State	Tesoro Hawaii Corporation, Terminal Department-Honolulu Harbor Pier 34	Ongoing	Response	Hazard Managed With Engineering Controls
336.	Oahu	Honolulu	State	Tesoro Hawaii Corporation, Terminal Department-Sand Island	Ongoing	Response	Hazard Present
337.	Oahu	Honolulu	State	Theo Davies Caterpillar Repair Site	Inactive	Response	Hazard Managed With Engineering Controls
338.	Oahu	Honolulu	State	Thoht Property	Ongoing	Assessment	Hazard Undetermined
339.	Oahu	Honolulu	State	Towco - Sand Island	Ongoing	Assessment	Hazard Undetermined
340.	Oahu	Honolulu	State	Travel Plaza Transportation, LLC	Ongoing	Assessment	Hazard Undetermined
341.	Oahu	Honolulu	State	Uaukewai Diving Salvage & Fishing, Inc	Inactive	Response	Hazard Present
342.	Oahu	Honolulu	State	Underground Hoists	Ongoing	Assessment	Hazard Managed With Institutional Controls
343.	Oahu	Honolulu	State	University of Hawaii at Manoa	Ongoing	Assessment	Hazard Undetermined
344.	Oahu	Honolulu	State	USPS Vehicle Maintenance Facility	Ongoing	Response	Hazard Present

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345.	Oahu	Honolulu	State	Von Hamm Textiles	Ongoing	Assessment	Hazard Managed With Institutional Controls
346.	Oahu	Honolulu	State	Waikiki Gateway Park	Ongoing	Assessment	Hazard Undetermined
347.	Oahu	Honolulu	State	Waikiki Sand Villa II	Ongoing	Assessment	Hazard Undetermined
348.	Oahu	Honolulu	State	Waipahu Auto Company	Ongoing	Assessment	Hazard Managed With Institutional Controls
349.	Oahu	Honolulu	State	Weyerhaeuser	Ongoing	Response	Hazard Present
350.	Oahu	Honolulu	State	Wiliwili and King Streets Excavation	Ongoing	Assessment	Hazard Undetermined
351.	Oahu	Honolulu	State	Yacht Harbor Towers	Ongoing	Assessment	Hazard Undetermined
352.	Oahu	Honolulu	State	Yee Hop Building Maunakea Street	Ongoing	Response	Hazard Undetermined
353.	Oahu	Honolulu	State	Yee Hop Property	Ongoing	Assessment	Hazard Undetermined
354.	Oahu	Honolulu	State	Young Brothers, Ltd Piers 24-28	Ongoing	Response	Hazard Present
355.	Oahu	Honolulu	State	Young Brothers, Ltd. Piers 39, 40	Ongoing	Assessment	Hazard Undetermined
356.	Oahu	Honolulu	State	Yue-Fung Kwan Construction Site	NFA	Assessment	Hazard Managed With Institutional Controls
357.	Oahu	Honolulu	State	Zippy's 666 N Nimitz Highway	Ongoing	Response	Hazard Present
358.	Oahu	Honolulu	VRP	Aloha/King Self Storage	Ongoing	Response	Hazard Managed With Engineering Controls
359.	Oahu	Honolulu	VRP	Brewer Environmental Industries-Pacific Street	Ongoing	Assessment	Hazard Undetermined

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360.	Oahu	Honolulu	VRP	Costco Warehouse	NFA	Response	Hazard Managed With Engineering Controls
361.	Oahu	Honolulu	VRP	Sprint PCS Call Center	NFA	Response	Hazard Managed With Engineering Controls
362.	Oahu	Honolulu	VRP	Tosco Honolulu Bulk Distribution Terminal	Ongoing	Response	Hazard Managed With Engineering Controls
363.	Oahu	Kahuku	VRP	Kahuku Sugar Mill	Ongoing	Response	Hazard Managed With Institutional Controls
364.	Oahu	Kailua	PA/SI	Honolulu Skeet Club	Ongoing	Response	Hazard Managed With Institutional Controls
365.	Oahu	Kailua	State	C&C Facility Maintenance Kapaa Quarry Rd. Baseyard	Ongoing	Response	Hazard Present
366.	Oahu	Kailua	State	Grace Pacific Corporation - Upper Kapaa Facility	NFA	Response	No Hazard
367.	Oahu	Kailua	State	GTE Kailua Baseyard	NFA	Assessment	Hazard Managed With Engineering Controls
368.	Oahu	Kailua	State	Hawaii Youth Correctional Facility	Ongoing	Assessment	Hazard Undetermined
369.	Oahu	Kailua	State	Kailua 76 #4342 (Unocal)	NFA	Assessment	No Hazard
370.	Oahu	Kailua	State	Kailua Corporation Yard	Ongoing	Assessment	Hazard Undetermined
371.	Oahu	Kailua	State	Kapaa Landfill - Kapaa Quarry Road	Ongoing	Assessment	Hazard Undetermined
372.	Oahu	Kailua	State	Malunui Avenue Oil Contamination	Ongoing	Assessment	Hazard Undetermined

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373.	Oahu	Kailua	State	Windward Volkswagon	Ongoing	Assessment	Hazard Managed With Engineering Controls
374.	Oahu	Kaneohe	Brownfields	Haiku Valley Rehabilitation Site	Ongoing	Assessment	Hazard Undetermined
375.	Oahu	Kaneohe	State	Caesar's Cleaners	Ongoing	Response	Hazard Present
376.	Oahu	Kaneohe	State	Scott's Plating	NFA	Assessment	No Hazard
377.	Oahu	Kaneohe	State	USCG Omega Station	Ongoing	Assessment	Hazard Undetermined
378.	Oahu	Kapaa	State	Kapaa Corporation Yard	Ongoing	Response	Hazard Present
379.	Oahu	Kapolei	Brownfields	DHHL East Kapolei Affordable Housing Project	NFA	Assessment	No Hazard
380.	Oahu	Kapolei	Brownfields	Ewa Feedlot Property	Ongoing	Response	Hazard Undetermined
381.	Oahu	Kapolei	State	AES Hawaii Inc	Ongoing	Assessment	Hazard Present
382.	Oahu	Kapolei	State	Aloha Petroleum, Barbers Pt Sales Terminal (Formerly Texaco/Equilon)	Ongoing	Response	Hazard Present
383.	Oahu	Kapolei	State	Ameron Hawaii Industrial Precast Products (fka Pipe Plant)	Ongoing	Assessment	Hazard Undetermined
384.	Oahu	Kapolei	State	Barbers Point Harbor Expansion	Ongoing	Assessment	Hazard Undetermined
385.	Oahu	Kapolei	State	Barbers Point Harbor Pier 5	Ongoing	Assessment	Hazard Undetermined
386.	Oahu	Kapolei	State	Barbers Point Harbor Pier 7 and Storage Yard S-6	Ongoing	Assessment	Hazard Undetermined
387.	Oahu	Kapolei	State	Chemwood Treatment Co, Inc.	Ongoing	Assessment	Hazard Managed With Engineering Controls
388.	Oahu	Kapolei	State	Chevron USA Products Co., Hawaii Refinery Tank Sludge	Ongoing	Assessment	Hazard Undetermined

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389.	Oahu	Kapolei	State	Chevron USA Products Co., Hawaii Refinery, Marine Line Release	Inactive	Response	Hazard Present
390.	Oahu	Kapolei	State	Con-Fab Hawaii Corporation	Ongoing	Assessment	Hazard Undetermined
391.	Oahu	Kapolei	State	Costco Kapolei	Ongoing	Assessment	Hazard Undetermined
392.	Oahu	Kapolei	State	CoVan Warehouse	Ongoing	Assessment	Hazard Undetermined
393.	Oahu	Kapolei	State	East Kapolei Hoopili	Ongoing	Assessment	Hazard Undetermined
394.	Oahu	Kapolei	State	Hanua Street Fugitive Oil	Ongoing	Assessment	Hazard Undetermined
395.	Oahu	Kapolei	State	Hanua Street, Southern Terminus	Ongoing	Assessment	Hazard Managed With Engineering Controls
396.	Oahu	Kapolei	State	Hawaii Metal Recycling Company	Ongoing	Assessment	Hazard Undetermined
397.	Oahu	Kapolei	State	Hawaii Project Management (HPM) / Hawaiian Western Steel, Inc Beach Dump	Ongoing	Assessment	Hazard Managed With Institutional Controls
398.	Oahu	Kapolei	State	Hawaiian Dredging Construction Company, Incorporated	Inactive	Assessment	Hazard Undetermined
399.	Oahu	Kapolei	State	Hawaiian Refractories (Hawaiian Meat Packers)	Ongoing	Assessment	Hazard Undetermined
400.	Oahu	Kapolei	State	Hawaiian Western Steel Dump	Ongoing	Assessment	Hazard Present
401.	Oahu	Kapolei	State	Hawaiian Western Steel, Ltd	Ongoing	Assessment	Hazard Present
402.	Oahu	Kapolei	State	HECO Pad-mount Transformer 45530	Ongoing	Assessment	Hazard Undetermined
403.	Oahu	Kapolei	State	Honolulu Resource Recovery Venture - H Power	Ongoing	Assessment	Hazard Managed With Engineering Controls
404.	Oahu	Kapolei	State	Industrial Technology Kauhi Street	Ongoing	Assessment	Hazard Undetermined
405.	Oahu	Kapolei	State	Kalaeloa Cogeneration Plant	Ongoing	Assessment	Hazard Undetermined

HAWAII STATE RESPONSE PROGRAM SITE LIST

Hawai'i State Response Program List of Priority Sites - FY 2008

	<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Status</u>	<u>Program Action</u>	<u>Potential Hazard and Controls in Place</u>
406.	Oahu	Kapolei	State	Kapolei Commons	NFA	Response	Hazard Managed With Institutional Controls
407.	Oahu	Kapolei	State	Kenai Industrial Park	Ongoing	Assessment	Hazard Present
408.	Oahu	Kapolei	State	Ko Olina Resort Omega Project	Ongoing	Assessment	Hazard Undetermined
409.	Oahu	Kapolei	State	Leihano Proposed Kapolei Senior Village	NFA	Assessment	No Hazard
410.	Oahu	Kapolei	State	Marisco, Ltd	Ongoing	Assessment	Hazard Undetermined
411.	Oahu	Kapolei	State	Precision Wood of Hawaii Inc	Ongoing	Assessment	Hazard Undetermined
412.	Oahu	Kapolei	State	Tesoro Hawaii Corporation Kapolei Refinery	Ongoing	Assessment	Hazard Undetermined
413.	Oahu	Kapolei	State	Tileco, Inc	Ongoing	Assessment	Hazard Undetermined
414.	Oahu	Kapolei	State	UH West Oahu Campus	Ongoing	Assessment	Hazard Undetermined
415.	Oahu	Kapolei	State	Waimanalo Gulch Sanitary Landfill	Ongoing	Assessment	Hazard Undetermined
416.	Oahu	Kapolei	VRP	Honolulu Wood Treating Company, Ltd	Ongoing	Response	Hazard Undetermined
417.	Oahu	Kapolei	VRP	Honsador Lumber Corp	Ongoing	Response	Hazard Undetermined
418.	Oahu	Kapolei	VRP	Komohana Park	NFA	Response	Hazard Managed With Institutional Controls
419.	Oahu	Kapolei	VRP	Sun Home Metals	Ongoing	Response	Hazard Undetermined
420.	Oahu	Kualoa	State	Kualoa Regional Park	NFA	Assessment	No Hazard
421.	Oahu	Kunia	PA/SI	Del Monte Oahu Plantation Poamoho Tract	NFA	Assessment	No Hazard
422.	Oahu	Kunia	State	Del Monte Corp (Oahu Plantation)	Ongoing	Assessment	Hazard Managed With Engineering Controls

Hawai'i State Response Program List of Priority Sites - FY 2008

	<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Status</u>	<u>Program Action</u>	<u>Potential Hazard and Controls in Place</u>
423.	Oahu	Kunia	State	Del Monte Fresh Fruit Packing Facility	Ongoing	Assessment	Hazard Undetermined
424.	Oahu	Kunia	State	Del Monte Kunia Fresh Fruit Packing Facility	Ongoing	Assessment	Hazard Undetermined
425.	Oahu	Kunia	State	Ewa Sugar Mill/Oahu Sugar Co. - Kunia Staging Area	Ongoing	Assessment	Hazard Undetermined
426.	Oahu	Kunia	State	Hawaii Agriculture Research Center-Kunia Substation	Ongoing	Assessment	Hazard Undetermined
427.	Oahu	Kunia	State	Kunia Wells I	Ongoing	Assessment	Hazard Undetermined
428.	Oahu	Kunia	State	Kunia Wells II	Ongoing	Assessment	Hazard Undetermined
429.	Oahu	Kunia	State	Royal Kunia Phase II	Ongoing	Response	Hazard Present
430.	Oahu	Mililani	State	Mililani Wells I	Ongoing	Assessment	Hazard Undetermined
431.	Oahu	Mililani	State	Mililani Wells II	Ongoing	Assessment	Hazard Undetermined
432.	Oahu	Mokuleia	State	Dillingham Ranch	NFA	Response	Hazard Managed With Institutional Controls
433.	Oahu	Nanakuli	State	Hakimo Road, Maile	Ongoing	Assessment	Hazard Undetermined
434.	Oahu	Nanakuli	State	Kaiser Cement Corp Waianae Point	Ongoing	Assessment	Hazard Undetermined
435.	Oahu	Pearl City	Brownfields	Waimano Home Campus	Ongoing	Assessment	Hazard Managed With Engineering Controls
436.	Oahu	Pearl City	State	Hawaii Army National Guard Waiawa Gulch	Ongoing	Response	Hazard Present
437.	Oahu	Pearl City	State	HECO Generating Station: Waiau	Ongoing	Assessment	Hazard Undetermined
438.	Oahu	Pearl City	State	Pearl City Towing	Ongoing	Assessment	Hazard Undetermined
439.	Oahu	Pearl City	State	Pearl City Urban Garden Center	Inactive	Assessment	Hazard Managed With Institutional Controls

HAWAII STATE RESPONSE PROGRAM SITE LIST

Hawai'i State Response Program List of Priority Sites - FY 2008

	<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Status</u>	<u>Program Action</u>	<u>Potential Hazard and Controls in Place</u>
440.	Oahu	Pearl City	State	Waterfront Manor	Ongoing	Assessment	Hazard Undetermined
441.	Oahu	Wahiawa	State	Flagship 76 #3128 (Jimmy's; Mike's Wahiawa; Unocal SS#3128)	NFA	Assessment	No Hazard
442.	Oahu	Wahiawa	State	Porter Site	Ongoing	Assessment	Hazard Present
443.	Oahu	Wahiawa	State	Wheeler Army Airfield Transformer WAAF-27	Ongoing	Response	Hazard Managed With Institutional Controls
444.	Oahu	Waialua	PA/SI	Mount Kaala Natural Area Reserve	Ongoing	Assessment	Hazard Undetermined
445.	Oahu	Waialua	VRP	Waialua Sugar Mill Settling Ponds	Ongoing	Response	Hazard Undetermined
446.	Oahu	Waialua	VRP	Waialua Sugar Mill VRP Site	Ongoing	Response	Hazard Managed With Engineering Controls
447.	Oahu	Waianae	State	Hakimo Road Open Dump	Ongoing	Assessment	Hazard Undetermined
448.	Oahu	Waianae	State	HECO Substation: Mikilua Substation	Ongoing	Assessment	Hazard Undetermined
449.	Oahu	Waianae	State	Industrial Technology Tire Pile	Ongoing	Assessment	Hazard Undetermined
450.	Oahu	Waianae	State	Kapiki Junk Yard	Inactive	Assessment	Hazard Undetermined
451.	Oahu	Waimanalo	State	HECO Transformer 27728 (Vault 3032)	Ongoing	Assessment	Hazard Undetermined
452.	Oahu	Waimanalo	State	University of Hawaii, Waimanalo Experimental Farm	Ongoing	Assessment	Hazard Undetermined
453.	Oahu	Waimanalo	State	Waimanalo Areawide Groundwater Contamination	Ongoing	Assessment	Hazard Undetermined
454.	Oahu	Waipahu	State	ABC Corporation Leowaena Street	Ongoing	Assessment	Hazard Undetermined
455.	Oahu	Waipahu	State	Alexander and Baldwin Milltown Lead Contamination	Ongoing	Assessment	Hazard Managed With Institutional Controls

HAWAI'I STATE RESPONSE PROGRAM SITE LIST

Hawai'i State Response Program List of Priority Sites - FY 2008

	<u>Island</u>	<u>Locality</u>	<u>Program Area</u>	<u>Facility/Site Name</u>	<u>Site Status</u>	<u>Program Action</u>	<u>Potential Hazard and Controls in Place</u>
456.	Oahu	Waipahu	State	Hawthorne Pacific Corporation	NFA	Response	No Hazard
457.	Oahu	Waipahu	State	Royal Kunia Elementary School	Ongoing	Assessment	Hazard Undetermined
458.	Oahu	Waipahu	State	Waiawa Correctional Facility	Ongoing	Assessment	Hazard Undetermined
459.	Oahu	Waipahu	State	Waipahu Wells	Ongoing	Assessment	Hazard Undetermined
460.	Oahu	Waipahu	State	Waipio Heights Wells II	Ongoing	Assessment	Hazard Undetermined
461.	Oahu	Waipahu	VRP	Lot 32 Former Waipahu Sugar Mill Arsenic	Ongoing	Response	Hazard Managed With Institutional Controls
462.	Oahu	Waipahu	VRP	Lot 32 Former Waipahu Sugar Mill Diesel Plume and Solvent in Groundwater	Ongoing	Response	Hazard Managed With Institutional Controls
463.	Oahu	Waipahu	VRP	Lots 28 and 29 Former Waipahu Sugar Mill Diesel Plume	NFA	Response	Hazard Managed With Institutional Controls
464.	Oahu	Waipio	State	Ewa Sugar Mill/Oahu Sugar Co. - Waipio Peninsula	Ongoing	Assessment	Hazard Managed With Engineering Controls

LIST OF HAWAI'I STATE RESPONSE PROGRAM EMERGENCY RESPONSE NOTIFICATIONS

The Hawai'i State Response Program Release Notification Log presented in this section shows a listing of all chemical and petroleum release notifications received by the HEER Office emergency response team during the fiscal year. The Release Notification Log is sorted in order of Island, Locality, and the Case Name.

The Hazardous Evaluation and Emergency Response (HEER) Office received a total of 328 notifications including 197 oil sheen notifications for the historic Chevron's Pipeline at Waiiau CT10 area, for a total of 132 separate release cases. Notifications for potential or actual releases of Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance(s) or petroleum related substances numbered 117. HEER Office State On Scene Coordinators (SOSCs) performed direct oversight on 56 cases requiring on-site visits or off-scene coordination. Twenty cases were referred to the HEER Office Site Discovery, Assessment and Remediation (SDAR) Section for follow-on non-emergency cleanup prioritization and 17 cases were referred to other agencies.

HEER Office Emergency Response Actions - FY 2008

<u>Release Notifications*</u>	<u>Chevron Pipeline Oil Spill at Waiiau CT10 Area Specific Notifications</u>	<u>Hazardous Substance/Oil Related Responses</u>	<u>Direct On-site or Off-site SOSC Oversight</u>	<u>Cases Referred</u>
132 *	197	117	56	37

* The 197 Chevron Pipeline Oil Spill at Waiiau CT10 Area specific notifications are counted as one notification

Hawai'i State Response Program Release Notification Log - FY 2008

<u>Island</u>	<u>Locality</u>	<u>Case Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Substance</u>	<u>Media</u>
1. Hawaii	Hilo	Hawaii Petroleum, Inc. Hilo Pier #3	20070829-0659	While loading a boat, tanker truck's suction hose vibrated loose and released diesel onto the pier and into Hilo Bay	Diesel Fuel	Ocean
2. Hawaii	Hilo	HELCO Generating Station: Hill/Kanoielehua	20070825-1240	In preparation for painting, hydroblasting caused a small hole, releasing oil; oil contained within a sub-berm made; berm has earthen bottom. Oil collected via vacuum truck and being burned in the generating units.	Fuel Oil	Soil
3. Hawaii	Hilo	Hilo Bay Boat Ramp	20070707-2030	Release of 200 Gals of Diesel into Wailua River from Hilo Bay Boat Ramp	Diesel Fuel	Ocean
4. Hawaii	Hilo	Hilo Harbor	20080409-1353	Diesel release due to unknown Reasons	Diesel Fuel	Ocean
5. Hawaii	Hilo	Pole Mount Transformer 13946	20080208-1450	Transformer Failure	Ergon HyVolt II Insulating Oil	Soil
6. Hawaii	Hilo	Pole Mount Transformer 24275	20080208-1448	Rust decayed transformer release	HYVOLT II	Soil
7. Hawaii	Hilo	Pole Mount Transformer 3613	20080208-1449	Release from Transformer due to transport	HYVOLT II	Soil
8. Hawaii	Hilo	Yahdah Services Hilo Bay Diesel	20070705-0915	125 gal diesel tote fell out of truck making turn. 15-20 gal diesel ran into Hilo Bay	Diesel Fuel	Ocean
9. Hawaii	Kailua-Kona	HELCO Generating Station: Keahole	20080109-1437	Overfill of Oil Water Separator	Diesel Fuel	Soil
10. Hawaii	Kailua-Kona	Kailua Kona Alleged High Radiation Readings	20070805-1300	Caller alleging 5 R/hr readings	None	Air

Hawai'i State Response Program Release Notification Log - FY 2008

<u>Island</u>	<u>Locality</u>	<u>Case Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Substance</u>	<u>Media</u>
11. Hawaii	Kawaihae Harbor	Kawaihae Harbor Unknown Sheen	20080307-0750	Unknown Sheen	Sheen	Ocean
12. Hawaii	Upolo	Hamakua HWY 19	20080308-0550	Release from truck fuel tank	Diesel Fuel	Asphalt
13. Kauai	Donkey Beach	Kauai Donkey Beach	20071026-1310	Compressed gas cylinder washed up on beach, resting 20 feet above high tide line	Carbon dioxide compressed gas	Lava
14. Kauai	Kapaa	Fiji Beach Park	20071023-1555	Possible land mine discovered while excavating for a bike path in Kapaa	Land Mine	Soil
15. Kauai	Kapaa	Wailua River1	20080312-1200	Unknown Sheen	Sheen	Other
16. Kauai	Kipu Kai	Unknown Sheen NRC 844548	20070806-0916	Unknown Sheen; unknown source	Oil	Ocean
17. Kauai	Pacific Ocean	Pride of American NCL NRC 845155	20070810-1040	Caller stated that he notice a trail of materials coming from a cruise vessel in the Pacific Ocean while he was in an airplane.	Unknown Sheen	Ocean
18. Kauai	Port Allen	Port Allen Harbor Unknown Sheen NRC 844614	20070806-0917	Unknown Sheen; unknown source	Oil	Ocean
19. Lanai	Lanai	Lanai Water Well #3	20080124-0800	Leaking 150-lb chlorine cylinder	Chlorine	Air
20. Lanai	Lanai City	Miki Basin Generating Station	20070816-1030	Release of oil during maintenance	Engine Oil 40SAE	Soil
21. Maui	Kahului	MECO Kahului Harbor Pier 1 MECO Pipelines	20071107-0820	Structural Failure	Oil	Ocean
22. Maui	Kahului	Pad-Mount Transformer MECO 11422	20071217-0716	Rust decayed Transformer	HYVOLT II	Soil
23. Maui	Kahului	Pad-Mount Transformer MECO 12132	20080409-0911	Rust decayed Transformer	HYVOLT II	Soil
24. Maui	Kahului	Pad-Mount Transformer MECO 12136	20071217-1540	Rust-decayed Transformer housing caused the release	HYVOLT II	Soil

Hawai'i State Response Program Release Notification Log - FY 2008

<u>Island</u>	<u>Locality</u>	<u>Case Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Substance</u>	<u>Media</u>
25. Maui	Kahului	Pad-Mount Transformer MECO 12136	20071218-1342	Rust decayed Transformer	HYVOLT II	Soil
26. Maui	Kahului	Pad-Mount Transformer MECO 12712	20080129-1519	Rust decayed Transformer	HYVOLT II	Soil
27. Maui	Kahului	Pad-Mount Transformer MECO 13924	20080129-1520	Rust decayed Transformer	HYVOLT II	Soil
28. Maui	Kahului	Pad-Mount Transformer MECO 14571	20080107-1443	Rust decayed Transformer	HYVOLT II	Soil
29. Maui	Kahului	Pad-Mount Transformer MECO 14627	20080613-1428	Rust decayed Transformer	HYVOLT II	Impermeable Surface
30. Maui	Kahului	Pad-Mount Transformer MECO 5277	20080314-1101	Rust decayed Transformer	HYVOLT II	Soil
31. Maui	Kahului	Pad-Mount Transformer MECO 6437	20080313-1312	Rust decayed Transformer	HYVOLT II	Soil
32. Maui	Kahului	Pad-Mount Transformer MECO Containment Bucket Release 244	20080102-1454	Storm Induced wind blew over containment bucket	HYVOLT II	Soil
33. Maui	Kapalua	Pailolo Channel NRC 859865	20080116-1435	Unknown possible oil release	Oil	Ocean
34. Maui	Kapalua	Pailolo Channel NRC 860578	20080124-1742	Due to a loose hose connection 1 Barrel of diesel was released approx. 80 nm from Oahu	Diesel Fuel	Ocean
35. Maui	Lahaina	Kamehameha Schools Lahainaluna Road Transformers	20080116-1130	Vandalized transformers - potential release	Oil	Soil
36. Maui	Lahaina	Launiupoko Transformer	20080116-1100	Water reservoir location where old transformers potentially containing PCBs were located	Oil	Soil
37. Maui	Lahaina	Puukoolii Old Pioneer Mill Transformers	20070711-1100	Abandoned transformers; no labels; unknown if there is still oil and/or PCBs	Oil	Other

HAWAII STATE RESPONSE PROGRAM EMERGENCY RESPONSE NOTIFICATIONS LIST

Hawai'i State Response Program Release Notification Log - FY 2008

<u>Island</u>	<u>Locality</u>	<u>Case Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Substance</u>	<u>Media</u>
38. Maui	Lahaina	Shaw Street Old Pioneer Mill Transformers	20070710-0850	Vandalism destroyed transformers, some of which have labels with >50 ppm PCB	Oil	Soil
39. Maui	Lahaina	Train Turnaround Transformer Substation Site	20080116-1230	Potential Release of transformer oil possibly containing PCBs	Oil	Soil
40. Maui	Lahainaluna	Pioneer Mill Lahainaluna Road Transformers	20080116-1145	Transformers - placards indicate no PCBs but possibly contained PCBs in past	Oil	Soil
41. Maui	Maui	Maui Electric Padmount Transformer No 12760	20071027-1728	Motor vehicle accident/ struck transformer	Mineral Oil	Soil
42. Maui	Olowalu	Luawai Road Transformer	20080116-1035	Alleged transformers with potential to contain PCBs	Oil	Soil
43. Maui	Olowalu	Olowalu Shaft Transformer Substation	20080116-1010	Transformers with PCB labels	Oil	Soil
44. Maui	Olowalu	Olowalu Shaft Transformer Substation	20080116-1010	Transformers with PCB labels	Poly chlorinated biphenyls	Soil
45. Maui	Puunene	Puunene Sugar Mill Seed Treatment Plant	20080612-0905	From hydraulic system of a dip tank. Spill was to asphalt and soil	Hydraulic Oil	Asphalt/Soil
46. Maui	Puunene	Puunene Sugar Mill Transmission Oil Spill	20070820-1011	Release due to cane hauler truck blew transmission.	Transmission Fluid	Soil
47. Maui	Wailuku	Pole Mount Transformer MECO 13205	20080314-1102	Rust decayed Transformer	Ergon HYVOLT II	Soil
48. Maui	Wailuku	Pole Mount Transformer MECO 13374	20080409-0912	Rust decayed Transformer	Ergon HyVolt II Insulating Oil	Soil
49. Maui	Wailuku	Pole Mount Transformer MECO 13930	20071218-1341	Due to Corrosion Transformer released partial contents	Ergon HYVOLT II	Soil

Hawai'i State Response Program Release Notification Log - FY 2008

<u>Island</u>	<u>Locality</u>	<u>Case Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Substance</u>	<u>Media</u>
50. Maui	Wailuku	Pole Mount Transformer MECO 14920	20080109-1421	Storm winds blew transformer off pole	HYVOLT II	Soil
51. Maui	Wailuku	Pole Mount Transformer MECO 3610	20080107-1444	Rust decayed transformer release	HYVOLT II	Soil
52. Maui	Wailuku	Pole Mount Transformer MECO 4023	20080129-1521	Rust decayed transformer release	HYVOLT II	Soil
53. Maui	Wailuku	Pole Mount Transformer MECO 5795	20080227-1510	Transformer damaged during Transport	HYVOLY II	Soil
54. Maui	Wailuku	Pole Mount Transformer MECO 8812	20071217-0715	Due to Corrosion Transformer released partial contents	Ergon HYVOLT II	Soil
55. Maui	Wailuku	Pole Mount Transformer MECO 9019	20080305-1338	Rust decayed transformer release	HYVOLT II	Soil
56. Molokai	Hoolehua	Grace Pacific Corporation Manawainui, Molokai Facility	20080618-1626	42 abandoned drums discovered during clearing land area. Drums look to be old and soil stained from unknown substance.	Unknown	Soil
57. Oahu	Haleiwa	Haleiwa Chevron Service Station	20071026-1415	Report that baseline site assessment shows automotive debris and soil samples above EAL for lead and TPH. Area is adjacent to fishpond/ocean connected	TPH, lead above EAL	Soil
58. Oahu	Hick am Air Force Base	Hickam Air Force Base	20070908-0825	Broken fuel valve on jet causing fuel to be released on tarmac.	JP 8	Asphalt

Hawai'i State Response Program Release Notification Log - FY 2008

<u>Island</u>	<u>Locality</u>	<u>Case Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Substance</u>	<u>Media</u>
59. Oahu	Honolulu	2004 Republic Street UST	20080302-1104	While excavating for a sewer line contractor discovered an old fuel tank. Contractor was in the process of removing tank when approx. 5 gal of its contents was spilled.	Waste Oil	Soil
60. Oahu	Honolulu	2165 10th Avenue	20080222-1140	Abandoned acetylene cylinder, 5-gallon metal container of concrete primer, and 1 car battery	Acetylene	Asphalt
61. Oahu	Honolulu	3109 Pualei Circle	20080615-1924	Complainant claims a contractor for the owner is disposing asbestos illegally.	Asbestos	Air
62. Oahu	Honolulu	Aircraft Service International Group - Sand Island (ASIG)	20080110-1448	Structural Failure	Jet Fuel	Groundwater
63. Oahu	Honolulu	Ala Wai Boat Harbor Sheen Sighting	20080307-1838	Sheen at the 400 row	Sheen	Ocean
64. Oahu	Honolulu	Ala Wai Harbor, Oil Sheen	20080214-0850	Unknown Sheen located between the Ala Moana and Kalakaua Bridges	Sheen	Ocean
65. Oahu	Honolulu	American Savings Bank - Aina Haina	20070710-1730	Alleged white powder on incoming money	Unknown	Within Facility
66. Oahu	Honolulu	Beretania Street Public Restroom	20080619-0421	Blood found in public restroom	Blood	Concrete
67. Oahu	Honolulu	C&C HONOLULU SEWER	20080403-0705	Wastewater inspector reports black oil found in County sewer	Black Oil	Sewer
68. Oahu	Honolulu	Chevron Bulk Fuel Loading Rack Driveway Access	20070803-1657	Reports finding oil in soil when digging at driveway entrance	Oil	Soil
69. Oahu	Honolulu	Diamond Head Seafood Company	20070920-0930	Seafood waste leaking from trash bin onto Robello Lane with a foul odor	Seafood waste	Asphalt

Hawai'i State Response Program Release Notification Log - FY 2008

<u>Island</u>	<u>Locality</u>	<u>Case Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Substance</u>	<u>Media</u>
70.Oahu	Honolulu	Honolulu Harbor - Young Brothers	20080522-0650	While removing a 500 Gal. Tote, operator accidentally knocked the tote over releasing approx. 300 gals. onto the deck & approx. 50 gals into Honolulu Harbor	Waste oil	Ocean
71.Oahu	Honolulu	Honolulu Harbor Oil Sheen	20080211-0800	Unknown Sheen observed by USCG at Piers 10-11	Sheen	Ocean
72.Oahu	Honolulu	Honolulu Harbor Oil Sheen	20080212-0905	Unknown Sheen Pier 24	Sheen	Ocean
73.Oahu	Honolulu	Honolulu Harbor Pier 10	20071105-1341	High sulfur diesel spill due to leaking flange during transfer of material. Material spilled into water.	Diesel Fuel	Ocean
74.Oahu	Honolulu	Honolulu Harbor Pier 30	20080328-0843	5-gallon red-dyed diesel fuel from M/V Moana Hele	Diesel Fuel	Ocean
75.Oahu	Honolulu	Honolulu Harbor Pier Drum	20070723-1402	Caller is reporting a discovery of a hazardous material in a drum discovered at the pier.	Unknown	Other
76.Oahu	Honolulu	Honolulu Harbor Piers 1-30	20070827-0718	Unknown Sheen, unknown source; estimated size - > 1 gallon	Oil	Ocean
77.Oahu	Honolulu	Jeannette and Harry Weinberg Maluhia Elderly Housing	20071018-0929	Allegations of use of hazardous substances that is causing pollution and deaths to residents	Unknown	Ground
78.Oahu	Honolulu	Jiffy Lube King Street	20080109-1420	Alleged oil dumping into trash bin	Motor Oil	Concrete
79.Oahu	Honolulu	Kakoi St / Kilihau St	20070905-1230	Dye Test conducted by Eckard Brandes, Inc	Rodamine Dye	Other

Hawai'i State Response Program Release Notification Log - FY 2008

<u>Island</u>	<u>Locality</u>	<u>Case Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Substance</u>	<u>Media</u>
80.Oahu	Honolulu	Kalani Street, drums	20070831-1430	2 Abandon Drums on roadway behind Ross's	Motor Oil	Asphalt
81.Oahu	Honolulu	Lyon Arboretum Cottages A and G	20080605-1610	Limited Phase II Investigation Lyon Arboretum Cottage A and Cottage G 3860 Manoa Road	Lead	Soil
82.Oahu	Honolulu	Matson Pier 51B	20080423-1427	Hydraulic hose failure	Hydraulic Oil	Ocean
83.Oahu	Honolulu	Meadow Gold Dairies (Ice Cream Plant)	20071212-1530	Release from a tank	Oil	Soil
84.Oahu	Honolulu	Mississippi Voyager Diesel Release	20071004-1400	Ultra Low Sulfur Diesel Release during off loading of Mississippi Voyager	Diesel Fuel	Ocean
85.Oahu	Honolulu	MV Kaimikai-O-Kanaloa Pier 45 UH Snug Harbor Diesel	20071011-1150	Research vessel cracked diesel tank leaked to graywater tank during off-loading. Shore side sewer line leaked oil and sewage to ocean when graywater tank pumped to shore.	Oily Water Mixture	Ocean
86.Oahu	Honolulu	Pier 35 Oil Sheen	20071022-1230	Caller reports oil coming from under Pier 35	Oil	Ocean
87.Oahu	Honolulu	Pole-Mount Transformer HECO 54734	20071016-1057	Due to Corrosion Transformer released partial contents onto roadway	Ergon HYVOLT II	Asphalt
88.Oahu	Honolulu	Puuhale/ Kahai Street	20080220-0830	8 Abandon 5 gal pails of grease trap material	Cooking Grease	Asphalt
89.Oahu	Honolulu	Royal Gardens Hotel Diesel	20071029-0953	Diesel contamination in soil above EAL under diesel drums held to contain cooking oil	Diesel Fuel	Soil

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<u>Island</u>	<u>Locality</u>	<u>Case Name</u>	<u>Case Number</u>	<u>Incident</u>	<u>Substance</u>	<u>Media</u>
90.Oahu	Honolulu	Smith Maritime Tug Nunui	20071015-0835	Hydraulic oil discharged into the water from a leaking valve on a crane	Hydraulic Oil	Ocean
91.Oahu	Honolulu	Tanks at Puowaina Dr	20070823-1100	Call forwarded from SHWB. HFD called to report numerous propane and freon tank at 2129 Puowaina Drive.	Propane and Freon	Abandoned Containers
92.Oahu	Honolulu	Theo Davies Caterpillar Repair Site	20071211-1234	On Wednesday 120507, caller contacted SDAR to report the discovery of free product and stained soils at the site. He was hired by the RP to report the findings.	Petroleum	Soil
93.Oahu	Honolulu	Unknown Sheen Ala Moana Park	20071114-1559	Caller reporting unknown sheen from unknown source.	Unknown	Ocean
94.Oahu	Honolulu	USCG Cutter Hickory	20080128-1352	Discharge of hydraulic oil due to a ruptured Hydraulic hose	Hydraulic Oil	Ocean
95.Oahu	Kahala	976 Hunakai	20071017-1205	Complainant concerned about neighbors "injecting" poison into their home	Unknown	Air
96.Oahu	Kailua	1310A Mokulua Drive	20080618-1843	Lithium Battery Pack washes up on the beach	Lithium Battery	Ocean
97.Oahu	Kailua	Grace Pacific Kapaa Asphalt Plant Diesel Spill	20071030-1000	Workers overfilled 200 gal diesel day tank absorbed with fines washed to drainage ditch leading to Kawainui Marsh	Diesel Fuel	Soil
98.Oahu	Kailua	Kailua 76 #4342 (Unocal)	20070813-1554	Hydraulic Hoist Closure Assessment	Petroleum	Soil

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99.Oahu	Kailua	Kailua Fire Station	20080221-0845	Abandon Hg Found at station	Mercury	Other
100.Oahu	Kalaeloa	Kalaeloa Harbor, Pier 5	20070825-0642	Unknown sheen, unknown source	Oil	Ocean
101.Oahu	Kalaeloa	Kalaeloa/Ko Olina Harbor	20070909-1515	Unknown Off road diesel(red) found at Harbor entrance	Diesel Fuel	Ocean
102.Oahu	Kalihi	Kamanaiki Place	20070829-1900	Caller describing white liquid flowing downhill; investigated and resident admitted rinsing paintbrush	Paint	Soil
103.Oahu	Kalihi	Kerr Pacific Corporation dba HFM Foodservice	20070806-0806	Accident - tractor trailer bumped AST; helper moved tank causing spill	Motor Oil	Asphalt
104.Oahu	Kaneohe	Caesar's Cleaners	20070822-1010	Release discovered in conjunction with a potential property transaction	Tetachloro ethylene	Soil
105.Oahu	Kaneohe	Kaneohe Bay	20080313-1001	Gasoline odor coming from the bay area	Gasoline	Ocean
106.Oahu	Kaneohe	Kaneohe Bay Drive near Castle High School	20070926-1430	Over spraying of Round-up by C&C Road Maintenance	Round-up	Air
107.Oahu	Kaneohe	Kaneohe Bay Drive Sea Marker	20070803-1731	Sea marker washed ashore from Kaneohe Bay	None	Other
108.Oahu	Kaneohe	Kulana Nani Apts.	20071008-0810	Drum labeled Hazwaste left unattended in parking lot	Hazwaste	Drum or Other Container
109.Oahu	Kapolei	BHP Gas Express (Station # 55)	20080314-0757	Complaint of a gasoline spill allegedly not cleaned up	Gasoline	Concrete
110.Oahu	Kapolei	Chevron Products Company Hawaii Refinery	20080623-0058	Nitric Oxides release from crude flare stack due to planned maintenance activities	Nitric Oxides	Air

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111.Oahu	Kapolei	Chevron USA Products Co., Hawaii Refinery	20080213-0700	Valve was left open due operator error causing a release	Other Oil	Soil
112.Oahu	Kapolei	Refinery Kapolei Flare Stack Release	20070912-2030	Flare Stack Release due to process unit shutdown	Sulfur Dioxide	Air
113.Oahu	Kapolei	Refinery Kapolei Hydrocracker Shutdown	20080318-1430	Hydrocracker shutdown for unknown reasons	SO2	Air
114.Oahu	Kapolei	Single Buoy Mooring	20070925-1306	Caller reported oil sheen 1/2 mile off shore due to maintenance activity of disconnecting hose. Cleanup completed.	Crude Oil	Ocean
115.Oahu	Kapolei	Tesoro Hawaii Corporation Kapolei Refinery	20080217-0723	Power outage	None	Air
116.Oahu	Lahaina	Kaanapali Transformer Site	20080116-1200	Transformers	Oil	Soil
117.Oahu	Makaha	84-1132 Lahaina Street	20070717-1011	Allegations of improper stripping of vehicles and storage of tires	Solid Waste	Other
118.Oahu	Pear Harbor	Unknown Sheen Pearl Harbor NRC 846507	20070822-1020	Caller reported that there is release of material into the environment. A guard at the facility discovered the sheen in the water. Origin unknown. Caller does not believe this is the historic spill. Size: 1' x 1'	Unknown scum	Ocean
119.Oahu	Pearl Harbor	Chevron's Pipeline Oil Spill at Waiau 5/14/96	* 197 notifications during FY 2008	CT10 area - Historic Site: Oil sheen in CT10 area. Size: 2' x 2'	Sheen	Ocean
120.Oahu	Pearl Harbor	JP 8 Release Ramp 23C	20070909-0825	Due to a faulty fuel valve on aircraft, release of the JP 8	JP 8	Concrete

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121. Oahu	Pearl Harbor	Naval Station Pearl Harbor-Bishop Point	20080211-1322	Fuel burp while fuel internal tanks. Approx. 1 oz of diesel released in Pearl Harbor	Diesel Fuel	Ocean
122. Oahu	Pearl Harbor	Pearl Harbor Naval Station Tank Farm	20070926-1350	During Pressure test to a newly repaired fuel line a segment started to leak. Approx. 27.5 gallons of Marine diesel was released. Testing stopped and clean-up of effected area began.	Diesel Fuel	Soil
123. Oahu	Pearl Harbor	Pearl Harbor Naval Station Tank Farm	20071004-1315	During Pressure test to a newly repaired fuel line a segment started to leak. Approx. 50 gallons of Marine diesel was released. Testing was stopped and an assessment was conducted.	Diesel Fuel	Soil
124. Oahu	Pepeekeo	Petroleum Contaminated Soil Pepeekeo Point Subdivision	20071220-0841	Neighboring land owner, Hawaiian Rainbows, reports possible petroleum contamination on their property is coming from the Kraus property located on the adjacent lot. Previous land owner is Brewer Industries. Letter of Interest will go to both parties.	Petroleum	Soil
125. Oahu	Salt Lake	Aloha Waste Services	20071008-1700	Discharge of 400 gallons of Heavy whipping Cream onto the roadway and adjacent areas	Heavy Whipping Cream	Soil
126. Oahu	Salt Lake	Moanalua High School	20071009-1500	While excavating for a planter an unknown grey box with radiation placards was found	Unknown container	Soil

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127. Oahu	Wahiawa	1830 Wilikina Drive	20070822-1700	Caller reporting incomplete cleanup of downed transformers. Please reference Case No.: 20070820-1738	Oil	Asphalt
128. Oahu	Wahiawa	Schofield Army Bldg 747	20080331-1437	DPW reports finding 4900 ppm diesel in soil, suspect UST but UST not found at excavation	Diesel Fuel	Soil
129. Oahu	Waianae	85-1535 Haleahi Street	20080516-1231	Conex container containing 22 drums of perchloroethylene waste	Perchloroethylene Waste	Drum or Other Container
130. Oahu	Waianae	87-569 Kulaaupuni Street	20070717-1313	Red-colored soil that gives off white substance	None	Soil
131. Oahu	Waianae	87-Hakimo Road	20080513-0800	Removal of various Hazardous waste, Lead contamination to soils	Solvents & Lead	Soil
132. Oahu	Waimanalo	Waimanalo Beach Drum	20080201-1410	Small drum washed ashore containing unknown motor oil	Motor Oil	Ocean

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