

# DEPARTMENT OF ENVIRONMENTAL SERVICES

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## DUTIES AND FUNCTIONS

The Department of Environmental Services (ENV) is responsible for the City's wastewater, stormwater and solid waste disposal services. The department operates and maintains sewer lines, treatment plants, wastewater pump stations, landfills, refuse and recycling pickup and disposal, cesspool pumping and the stormwater permit program.

## MISSION STATEMENT

The mission of ENV is to protect public health and the environment by efficiently and effectively managing the wastewater, stormwater and solid waste systems of the City and County of Honolulu.

## VISION

ENV is viewed as a trusted environmental steward by citizens, regulators and industry to protect public health and the environment.

## VALUES

- *Community:* Provide transparent, collaborative, responsive service.
- *Commitment:* Do the right thing for the environment and public health.
- *Continuity:* Plan, design and operate for the good of future generations.



The new ENV logo reflects the department's commitment to the environment as depicted by the sun, water and Earth in the symbol.

## HIGHLIGHTS

### Administrative Support

Wastewater Sewer Service Charge revenue for the Fiscal Year 2010 Operating Budget amounted to approximately \$292,382,021, and the wastewater program continued to meet all revenue bond and financial requirements.

### Wastewater Revenue FY 2010

Sewer Service Charges .....	\$292,382,021
WW System Facility Charges .....	\$6,686,130
Other Revenue .....	\$146,027
Total .....	\$299,214,178

ENV continues to improve operations. Use of the enterprise asset management system/computerized maintenance management system is enhanced with improved configurations, implementation of manuals of practice and additional fiber connectivity to facilities.

### Organizational Development

ENV is updating its strategic planning process and has developed a new mission statement, vision and values reflected above.

### Organizational, Workforce Development

ENV continues to build on momentum established by supervisor training programs by addressing skill transfer and applying best practices to improve workforce productivity. Since its March 2009 kickoff, the orientation program informing and aligning the workforce to the department's mission and goals has reached 150 new and current employees.

### Asset Management Program

ENV has put additional emphasis on the implementation of its department-wide asset management program begun in 2001. ENV hired a full-time permanent Asset Manager to provide dedicated implementation services in FY 10. The program manages approximately \$2.4 billion in assets and emphasizes:

- Embracing key proven technologies related to asset information and asset life cycle management.
- Adopting proven work practices known to improve asset reliability and improve asset service life while reducing asset operating costs.
- Integrating Asset Reliability Engineering with ENV's Operating Divisions' activities related to asset design, specification, and repair / replace decisions.
- Making asset management an essential part of all ENV core operations.

**ENV Informational Technology Enhancement**

ENV completed its fifth year of the Five-Year Strategic Information Technology Master Plan that successfully implemented many IT projects across the department. Major accomplishments achieved in FY 10 include:

- ENV IT Support Section was established in DIT’s approved reorganization and is in the process of filling positions.
- Connected Sand Island, Waianae and Kahuku WWTPs to the City fiber optic network.
- Implemented a Laboratory Information Management System in the Water Quality lab.
- Increased archival storage for CSM’s CCTV video requirements.
- Modified the Oracle Work and Asset Management’s Timekeeping interface to adapt to the new bi-monthly pay periods.
- Procured fiber optic installation services for Refuse facilities (Honolulu Yard, Pearl City Yard and Keehi Transfer Station).
- Procured fiber optic installation services for Laie WWTP.
- Consolidating legacy in-house applications into one ENV Supplemental HR application, which will have an interface pulling data from the DHR Advantage system for employees.
- Upgraded computers and monitors that were at their end of life.

**Wastewater Program Management**

ENV has retained a Program Management consultant to provide technical and engineering services in support of the department’s wastewater capital improvement program and critical operating and maintenance (O&M) programs. The objective is to assist the department with timely and cost-effective engineering, management and enhancement of wastewater operations, maintenance and capital improvement programs, and to assist with ensuring various tasks and programs meet the requirements of consent decrees, administrative orders and National Pollutant Discharge Elimination System (NPDES) permits. The consultant will provide resource support from their technical staff to respond to ENV’s needs for technical expertise in specialized areas of wastewater operations, management and capital improvement projects.



The recently completed New Solids Handling Facility and Odor Control Systems at the Honouliuli Wastewater Treatment Plant in Ewa went operational in April 2010.

**ENV CAPITAL IMPROVEMENT PROJECTS**

Below is a list of ENV-only construction projects. The Department of Design and Construction provides a complete list of all City construction projects, including other ENV construction projects.

**Wastewater Construction Projects**

Honouliuli WWTP – New Solids Handling Facilities (on-going).....	\$41,497,212.35
Honouliuli WWTP – Upgrade (on-going).....	\$8,489,727.02

**Environmental Quality Projects**

Storm Drain Outlets near Ala Wai Canal (on going).....	\$449,445
Storm Drain Outlets in Waikiki Beach, Phase I (on going).....	\$379,367
Storm Drain Outlets in Waikiki Beach, Phase II (completed).....	\$279,000
Storm Drainage BMPs in the Salt Lake Drainage System (on-going) .....	\$240,000

**Collection System Maintenance Projects**

Rehabilitation of Sewer Lines on Oahu (IDIQ2, on-going).....	\$12,122,124
Rehabilitation of Sewer Lines on Oahu (IDIQ2, completed in FY10).....	\$1,208,478

**Refuse Division Projects**

Solid Waste-to-Energy Facility (H-POWER) .....	\$142,853,000
Waipahu Ash Landfill Closure (Pre-staging/construction materials) .....	\$13,697,689
Refuse Facilities Improvements .....	\$1,150,000
Kapaa/Kalaheo Landfill Gas Flare System .....	\$700,000

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Refuse Facilities Improvements .....	\$1,150,000
Kapaa/Kalaheo Landfill Gas Flare System .....	\$700,000
Waipahu Incinerator Site Closure.....	\$650,000
Oahu Secondary Landfill Site Selection Study .....	\$500,000

**NACWA's Peak Performance Awards**

This program recognizes the National Association of Clean water Agencies (NACWA) member agency facilities for excellence in wastewater treatment as measured by their compliance with NPDES permits. The City received five Peak Performance Awards this past year.

- Platinum Awards honor treatment works that have achieved 100 percent compliance with their NPDES permit for five consecutive calendar years.
- Gold Awards honor those that achieved 100 percent compliance with their permit for an entire calendar year.
- Silver Awards recognize facilities with no more than five permit violations per calendar year.



The Waianae WWTP notched its eighth straight year of 100 percent compliance with its NPDES permit.



**CSM, a first responder during wastewater events, spends the majority of its time performing preventive maintenance in Honolulu's collection system.**

**Platinum 8 Award – 2009**

Waianae Wastewater Treatment Plant (eight straight years 100 percent compliant)

**Gold Award - 2009**

Honouliuli Wastewater Treatment Plant  
 Kailua Regional Wastewater Treatment Plant  
 Wahiawa Wastewater Treatment Plant

**Silver Award – 2009**

Sand Island Wastewater Treatment Plant

**DIVISION OF COLLECTION SYSTEM MAINTENANCE (CSM)**

During FY 10, CSM cleaned and flushed 871 miles of sewer line, cleaned 450 laterals, chemically treated 476 laterals and inspected 33,270 manholes. Television camera inspections completed 457,962 feet of sewer line. Repairs completed on 287 feet of sewer and installed 71 feet of laterals and extensions. CSM maintains Low Pressure Sewer Systems (LPSS) in Laie and performed additional work under IDIQ2. CSM maintained and operated more than 750 LPSS in Laie last year and rehabilitated 41,506 linear feet with cured-in-place pipe (CIPP) lining.

**DIVISION OF ENVIRONMENTAL QUALITY (EQ)**

The Stormwater Quality (SWQ) Branch is the lead for administering the City's NPDES municipal separate storm sewer system (MS4) permit. The City was reissued its MS4 permit effective March 31, 2006, and submitted its stormwater management plan (SWMP) on March 30, 2007. In October 2009, SWQ submitted its FY 09 Annual Report along with the City's NPDES permit reapplication for the next 5-year period that expired September 8,

2009. SWQ recently received a copy of the draft MS4 permit from the state Department of Health (DOH) and responded with their comments to the draft permit for DOH and EPA's review. SWQ expects that they will receive a finalized permit in September 2010.

The City's SWMP includes various programs targeted at effectively reducing pollutants from entering the City's storm drainage system. One of those programs is the City's public education and outreach for both general audiences and targeted industries. For this, the City has taken a watershed approach to local stormwater management issues by forming partnerships, incorporating a variety of educational materials and strategies, and reaching diverse audiences.

A major theme in the process of educating residents about stormwater pollution sources involved finding a balance between proposing ambitious goals and the ability to realistically achieve them by building neighborhood stewardships in priority subwatersheds. The need to prioritize our efforts was prompted not only by regulatory drivers under the Clean Water Act that include the EPA's stormwater NPDES permit measurable goals, which covers pollutants discharged from the City's municipal storm drain system and Total Maximum Daily Loads (TMDL), which require the City to reduce nonpoint source pollutant loads by specific amounts; but also economic drivers that focus our efforts in priority TMDL watersheds that include Kaneohe, Kawa, Kapaa, Palolo, Manoa, Makiki, Waialeale (Kapakahi) and Kaukonahua streams.

Another component of the City's SWMP is through training and implementation of stormwater programs focused on the various City facilities. Site visits were made to City corporation yards, transfer stations, convenience centers, parks, golf courses, Honolulu Police Department (HPD) and Honolulu Fire Department (HFD) facilities to help identify and recommend best management practices (BMPs) to effectively control the source of these pollutants. Site specific stormwater plans were developed for many of these facilities as a result of those site inspections. In addition, nearly 1,900 employees participated in the City's annual NPDES training program. SWQ continued the use of a web-based training program referred to as the Environmental Compliance Assessment Training and Tracking System (ECATTS) that was originally started in FY 09 to help meet its training requirements. Topics included an overview of



**Stormwater engineers conduct various tests on the streams from various points along the stream on turbidity, etc.**

the regulatory requirements and City's SWMP, construction and post-construction plan review, construction BMP inspections, illicit discharge identification, investigation and enforcement procedures, chemical and pesticide application, and the implementation of various structural BMP along with good housekeeping measures.

During FY 10, the SWQ Branch performed 293 investigations, mailed 58 informational letters and 198 warning letters, while issuing 19 notices of violations with fines. The branch inspected 413 businesses in industrial/commercial areas and conducted 85 construction BMP compliance inspections of both private and City project sites.

Currently, the branch is involved with managing Capital Improvement Project (CIP) funded projects for structural BMPs at storm drains along the Waikiki Coast and selected outlets in the Ala Wai Canal, Kuapa Pond, Kaelepulu Pond, Salt Lake, Wahiawa Reservoir and Downtown-Chinatown area. The branch is focusing on three watershed management studies within the Ala Wai, Waialua-Kaiaka and Central Oahu watersheds. The branch initiated projects for HPD, HFD, Department of Enterprise Services (DES) and Department of Parks & Recreation (DPR) to evaluate their existing facilities and determine the need for structural improvements in accordance with NPDES requirements.

During FY 10, the Regulatory Control Branch (RCB) issued 572 Industrial Wastewater Discharge Permits requiring grease interceptors and/or pretreatment devices (silver recovery units, oil water separators, etc.). The branch performed 79 project reviews on building permit projects proposing to install grease interceptors. The branch issued 789 Wastewater Discharge Violation notices, 221 Letters of Warning and 50 Notices of Violations. ENV distributed approximately 3,951 cubic yards of biosolids compost from the Navy Biosolids Treatment Facility, 116 cubic yards of biosolids compost from the Laie Water Reclamation Facility and 2,293 dry tons of biosolids pellets from the Sand Island Synagro facility. This represents the amount of biosolids diverted from the landfill. The Honouliuli Water Reclamation Facility dispersed an average of 8.6 million gallons per day of recycled water. This represents the amount of effluent diverted from the ocean outfall. RCB continued with its implementation and outreach on Grease Interceptor Program Compliance. The branch focused on community groups, neighborhood boards and trade shows, educating industries and the public about the responsible use of the City sewer system.

The Water Quality Laboratory (WQL) performs diversified analytical procedures to monitor industrial wastewater going into the City's treatment system, the discharges from nine wastewater treatment plants (WWTP) and the receiving water environment. Laboratory analyses include measurements of physical/chemical properties, including metals and pesticides, microbiological examination and biological assays. Additionally, WQL conducted 140,620 analyses on 43,127 samples in FY10.

The Monitoring and Compliance Branch (M&C) continues to oversee compliance of the City's eight wastewater treatment plants with their applicable NPDES, Underground Injection Control (UIC) permits and air quality permits. Additionally, M&C assists RCB overseeing compliance at the Laie Wastewater Reclamation Facility. This work includes submitting annual assessment reports on the four largest facilities, applying for required permits, while tracking, compiling and submitting daily, monthly and annual data to DOH and EPA as required. Furthermore, the branch supports the operations division by addressing compliance issues at the facilities. The branch's Oceanographic Team continues to perform intensive monitoring of receiving waters for all of the City's ocean outfalls as required under various permits. The monitoring process includes diving to collect fish and sediment samples and inspecting the outfalls by deploying instruments at nearshore and offshore stations to track conditions at various depths. The



**The oceanographic team performs intensive tests on sediment, fish and water near the four major treatment plants that have deep ocean outfalls.**

Oceanographic Team supports compliance with air permits by assisting with air quality monitoring. Currently, the team daily monitors the Sand Island WWTP, the City's largest facility.

**DIVISION OF WASTEWATER TREATMENT & DISPOSAL (WTD)**

The Division of Wastewater Treatment and Disposal collects about 105 million gallons of wastewater each day from toilets, sinks and drains of homes, schools and businesses on Oahu.

Through a system of 2,100 miles of collection system, wastewater conveys through 70 pump stations and four preliminary treatment facilities before reaching one of nine wastewater treatment plants (WWTP) for processing. Once there, wastewater is screened to remove debris, organic solids then treated to different levels – primary to tertiary – depending on the sophistication of the plant. After the wastewater is processed, it is then discharged back into the environment through injection wells, a reservoir or the ocean.



ENV manages nine city-owned wastewater treatment plants on Oahu. Collectively, these facilities treated 105 million gallons of wastewater a day to various levels before recycling it back into the environment through injection wells, deep ocean outfalls and a reservoir.

**PUMP STATION FLOW CHART FY 10**

<u>PUMP STATION</u>	<u>MILLIONS GALLONS PUMPED</u>	<u>AVG MGD</u>	<u>PUMP STATION</u>	<u>MILLIONS GALLONS PUMPED</u>	<u>AVG MGD</u>
AALA DRIVE .....	25.2.....	0.07	HALEKOU .....	17.2.....	0.05
ALA MOANA #1 .....	11315.7.....	31.00	HART STREET- EWA FM.....	2901.1.....	7.95
ALA MOANA #2 .....	4669.7.....	12.79	HART STREET- DH FM.....	2856.6.....	7.83
ALALA POINT.....	64.6.....	0.18	HEEIA.....	66.4.....	0.18
ALIAMANU #1.....	89.6.....	0.25	HOMELANI .....	8.5.....	0.02
ALIAMANU #2.....	75.4.....	0.21	KAHALA.....	1414.3.....	3.87
ALII BLUFFS .....	13.2.....	0.04	KAHALUU .....	44.6.....	0.12
AWA STREET .....	870.1.....	2.38	KAHALUU HOUSING .....	35.9.....	0.10
BEACHWALK.....	3882.4.....	10.64	KAHANAHOU .....	63.8.....	0.17
COCONUT GROVE .....	52.0.....	0.14	KAHAWAI STREAM.....	81.3.....	0.22
ENCHANTED LAKE .....	99.7.....	0.27	KAILUA HEIGHTS .....	642.6.....	1.76
EWA BEACH.....	591.4.....	1.62	KAILUA ROAD .....	493.7.....	1.35
EWA GENTRY .....	163.3.....	0.45	KAMEHAMEHA HWY.....	1876.5.....	5.14
FORT DERUSSY .....	662.4.....	1.81	KANEOHE BAY SOUTH #2.....	57.2.....	0.16
GRANDVIEW *.....	2.6.....	0.01	KANEOHE BAY SOUTH #3.....	57.1.....	0.16
HALAWA .....	632.1.....	1.73	KANEOHE BAY SOUTH #4.....	15.8.....	0.04

<u>PUMP STATION</u>	<u>MILLIONS GALLONS PUMPED</u>	<u>AVG MGD</u>
KANEOHE BAY SOUTH #5.....	5.3.....	0.01
KEMOO FARM* .....	19.2.....	0.05
KUKANONO .....	39.3.....	0.11
KULIOUOU .....	167.5.....	0.46
KUNIA .....	554.9.....	1.52
LAENANI.....	38.6.....	0.11
LAIE.....	143.0.....	0.39
LAKEVIEW CIRCLE .....	56.1.....	0.15
LUALUALEI .....	261.7.....	0.72
MAKAKILO CITY* .....	13.0.....	0.04
MAUNAWILI ESTATES .....	25.8.....	0.07
MAUNAWILI PARK .....	54.7.....	0.15
MILILANI .....	31.5.....	0.09
MIOMIO.....	21.7.....	0.06
MOANA PARK .....	293.4.....	0.80
NAKULA STREET* .....	1.8.....	0.00
NANAKULI .....	22.0.....	0.06
NIU VALLEY.....	573.2.....	1.57
OHAI* .....	3.5.....	0.01
PACIFIC PALISADES.....	161.8.....	0.44
PAIKO DRIVE** .....	0.0.....	0.00

<u>PUMP STATION</u>	<u>MILLIONS GALLONS PUMPED</u>	<u>AVG MGD</u>
PEARL CITY .....	3997.3.....	10.95
PUBLIC BATHS .....	153.5.....	0.42
PUNAWAI.....	63.4.....	0.17
UWALU* .....	3.8.....	0.01
WAIAWA INDUSTRIAL PARK .....	18.0.....	0.05
WAIKALUA.....	59.0.....	0.16
WAIKAPOKI.....	179.6.....	0.49
WAIMALU.....	1742.5.....	4.77
WAIPAHU.....	3930.2.....	10.77
WAIPIO.....	146.9.....	0.40
WEST BEACH RESORT #1 .....	62.5.....	0.17
WEST BEACH RESORT #2 .....	103.0.....	0.28
WEST LOCH ESTATES .....	50.0.....	0.14
WEST LOCH FAIRWAYS.....	110.6.....	0.30
SAND ISLAND IND. PARK .....	3.5.....	0.01
SAND ISLAND PARKWAY .....	96.9.....	0.27
<b>TOTALS .....</b>	<b>47050.5.....</b>	<b>128.91</b>

\* No flow meters. Millions of Gallons Daily (MGD) Pumped and Average MGD estimated.

\*\* No flow meter. Flows to Niu Valley.

### TREATMENT PLANT FLOW CHART FY 10

<u>TREATMENT PLANT</u>	<u>MILLIONS GALLONS TREATED (MGD)</u>	<u>AVG MGD</u>
HONOULIULI .....	9273.3.....	25.41
KAHUKU .....	67.1.....	0.18
KAILUA.....	4108.4.....	11.26
LAIE.....	155.4.....	0.43
PAALAA KAI .....	32.1.....	0.09
SAND ISLAND .....	22930.8.....	62.82
WAIHAWA .....	613.5.....	1.68
WAIANAE.....	1150.2.....	3.15
WAIMANALO .....	218.3.....	0.60
TOTALS.....	38549.1.....	105.61

### REFUSE DIVISION

The Refuse Division plans, directs and coordinates programs for solid waste management for the City and County of Honolulu. The division provides refuse collection services and an integrated management system for waste reduction and disposal of solid waste, including recycling, waste-to-energy recycling (H-POWER) and landfilling. The division operates and maintains refuse transfer stations, refuse convenience centers and sanitary landfills.

In FY 10, H-POWER received approximately 602,971 tons of refuse and the Waimanalo Gulch Sanitary Landfill received 154,190 tons of municipal solid waste. Recycling data is collected on a calendar year. For CY 2009, 543,600 tons was recycled, including general material recycling along with construction and demolition recycling. The goal of the Refuse Division is to reduce waste to the landfill. The trend reflects that direction in the information presented below in the graph.

The data in the chart below shows how Oahu's waste has been diverted from landfill through recycling and waste-to-energy. The general trend is annual increases in recycling and waste-to-energy, and decreases in landfill disposal. In comparing the most recent years, CY2008 and 2009, note that overall waste generation decreased significantly, most likely due to the down-turn in the economy. Total waste generation dropped from 1.8 million tons in 2008 to 1.575 million tons in 2009. Although recycling tonnages decreased, the recycling rate, or percentage of the total waste stream, increased from 25 percent in 2008 to 27 percent in 2009. The total landfill diversion rate continued to increase from 57 percent in 2006/2007 to 61 percent in 2008 and 62 percent in 2009.

H-POWER expansion broke ground in January 2010. The expansion will add a third boiler and mass burn processing, enabling the facility to divert more of the bulky combustible waste from the landfill. The current facility has consistently processed an average of 600,000 tons per year since it began operation in 1990, diverting 90 percent of that volume from the landfill and generating

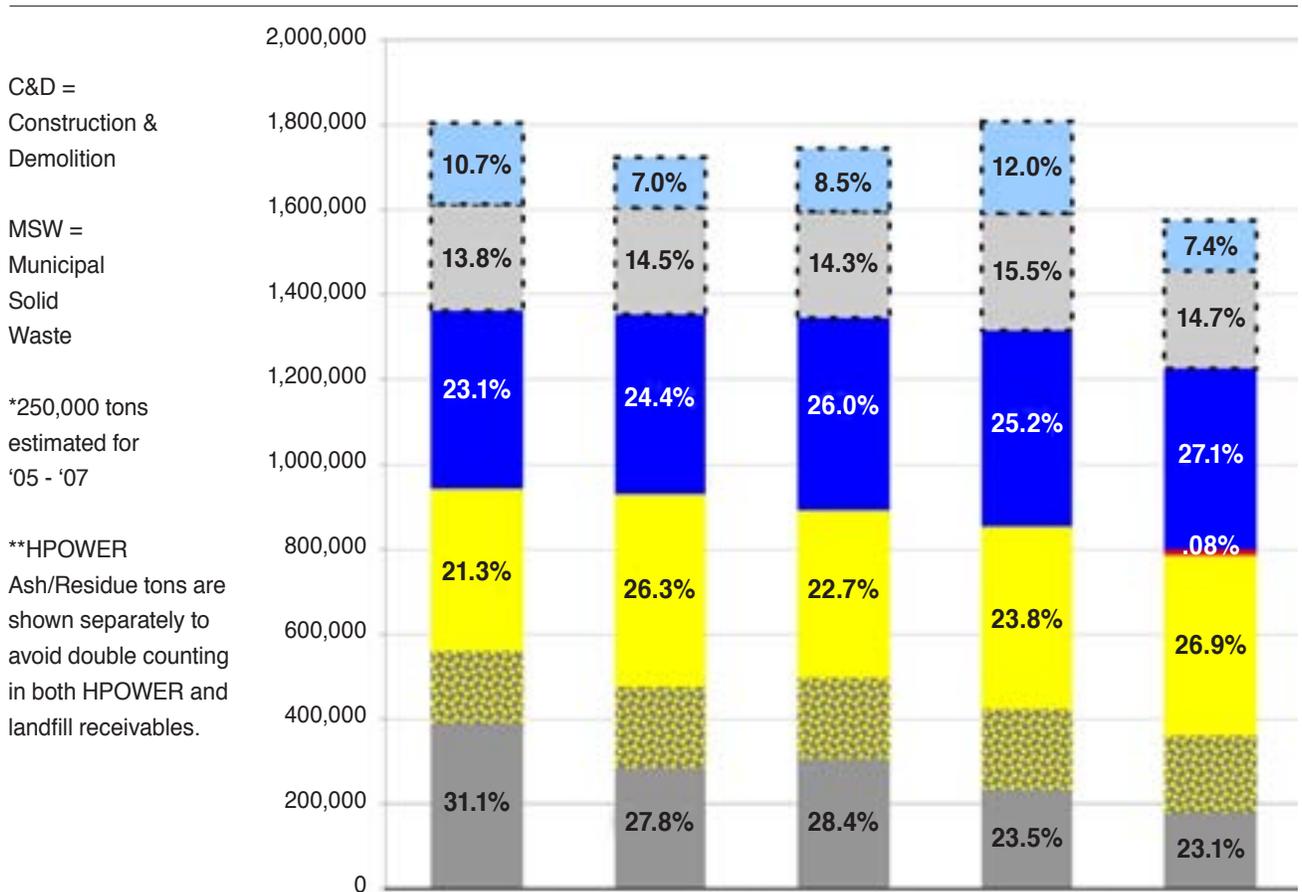
about 45 megawatts of power daily. The expansion increases capacity by an additional 300,000 tons of waste per year and is expected to be operational by 2012.

Curbside recycling expansion was completed in May 2010 to include all 160,000 homes with automated collection service island-wide. The new 3-cart collection system provides a blue cart for mixed recyclables, green cart for green waste and gray cart for refuse. Refuse in the gray cart is collected once per week while the blue/green recycling carts are collected once per week on alternately weekly schedules.

The permit to continue operation at the Waimanalo Gulch Sanitary Landfill (WGSL) was approved in June 2010. The permit allows expansion of the landfill to the complete extent of the City-owned property with a restriction that after July 2012 only ash and residue will be accepted. The landfill is an essential component of the City's overall integrated solid waste management plan as efforts to divert volumes from the landfill continue.

The City, partnered with Oceanic Time Warner Cable, launched The Green Channel in October 2009. The Green Channel is a new interactive digital channel on Oceanic 332 with a web interface on www.opala.org. ENV's "Opalavision" program features stories about recycling and waste management on Oahu, presented by a cast of young, local actors.

**Total Waste Stream on Oahu (Tons)  
CALENDAR YEAR**



	2005	2006	2007	2008	2009
C & D - Recycling	193,000	121,000	148,000	216,745	116,670
C & D Landfill	250,000	250,000	250,000	279,787	231,225
General Material Recycling (MSW)	417,669	421,072	453,372	456,876	426,947
Trash Shipping (MSW)	0	0	0	0	13,142
HPOWER - Waste to Energy (MSW)	384,127	454,068	396,218	431,599	422,605
HPOWER (Ash & Residue)	169,011	191,800	189,351	191,713	184,696
MSW Landfill	391,579	286,842	306,691	233,065	178,512
Total Landfill Diversion % (MSW/C&D)	55.1%	57.8%	57.2%	61.1%	62.2%
TOTAL Tonnage	1,805,386	1,724,782	1,743,632	1,809,785	1,573,797



In May 2010, the final communities transitioned into the island-wide curbside recycling program, bringing aboard all 160,000 automated service households.

**REFUSE OPERATING EXPENDITURES FY 2010**

**Administration**

**Revenue**

Recycling Surcharge.....	\$5,029,269
Refuse Disposal (Landfill & Transfer Stations).....	\$6,131,374
H-POWER Disposal Tip Fees .....	\$37,837,798
H-POWER Electricity Sales.....	\$43,711,315

**Disposal**

**Tons**

H-POWER Unacceptable Waste (UAW) .....	4,792
Trans Shipper.....	20,919
H-POWER Ash (wet weight) .....	86,455
H-POWER Residue .....	96,269
Waimanalo Gulch Sanitary Landfill (not including residue, Unacceptable Waste or ash) .....	154,190
MSW Received H-POWER.....	602,971

**Transfer**

Convenience Centers (to landfill, H-POWER, & Trans Shipper).....	27,878
Transfer Stations (to landfill, H-POWER, & Trans Shipper) .....	186,616

**Recycling**

ENV managed collection systems (curbside, community recycling bins, bulky items, convenience centers)	
Office Paper (City Agency Buildings) .....	68
Batteries.....	380
Tires .....	1,060
Metals (Bulky Collection and Convenience Centers).....	5,025
Mixed Recyclables (Community Recycling Bins) .....	5,760
Mixed Recyclables (Curbside Collection).....	15,400
Metals (H-POWER ferrous and non-ferrous).....	19,662
Green Waste (Curbside, Convenience Centers, Drop-off).....	58,240

**Curbside Collection**

**Tons**

Bulky Items (to recycling) .....	5,025
Mixed Recyclables (to recycling) .....	15,400
Green Waste (to composting).....	38,140
Refuse and Bulky Items (to landfill, H-POWER & Trans Shipper) .....	290,064