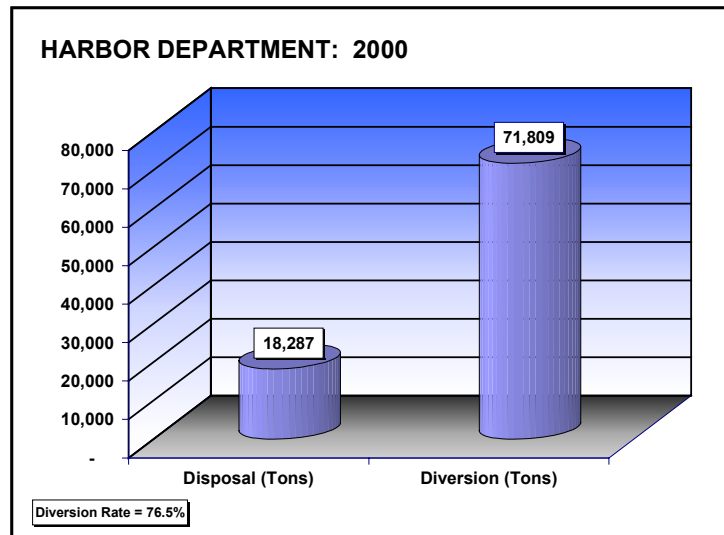


5.5 HARBOR DEPARTMENT

5.5.1 Introduction

The Los Angeles Harbor Department (Harbor) operates the Port of Los Angeles through a Tidelands Grant from the State of California. The Port of Los Angeles (Port) occupies 7,500 acres of water and land. More than 2,600 vessels and 70 million tons of cargo arrive annually. A five-member Board of Commissioners manages the Port. The Harbor operates as principal landlord for the purpose of assigning or leasing Port facilities or land areas. The Harbor also oversees the daily operations of the Port, managing various businesses and services ranging from restaurants to cargo handling. The Harbor maintains 15 divisions and 650 employees.



For the purpose of this report, the “Port” refers to all City-owned property. This property consists of over 350 facilities and an estimated 50,000 workers. The waste stream from this property includes Harbor-generated waste as well as waste generated by the more than 250 tenants. All tenants independently contract for waste collection and disposal. The waste stream from this property is regulated by City, State, and Federal law (Federal law regulates waste disposal in international waters).

5.5.2 Assessment of SRRE Goals

A new generation study was conducted for 1999 and 2000. The study included assessing the disposal and diversion for the tenants of the Port. Technical assistance was provided to tenants to increase their diversion activities. In the year 2000, the Port alone disposed of approximately 5,791 tons of waste and diverted approximately 59,513 tons, achieving a diversion rate of 91%. The waste reduction and recycling assessments in 1999-2000 showed that the tenants audited disposed of 12,496 tons and diverted 12,291 tons, for an overall diversion rate of 49.6%.

5.5.3 Description of Recycling Programs - Harbor Programs

Source Reduction

- Waste Reduction and Recycling Surveys

The Department hired a consultant to conduct waste audits of a cross-section of Port tenants, providing technical support, follow-up and documentation from the CIWMB to assist businesses in waste reduction. The report findings, which have been reviewed by the Harbor Department staff, are the basis for the Harbor’s updated assessment.

Implementation Year: 1999 - 2000

- Duplex Printing and Photocopying (SR16)

The Department practices duplex photocopying. The Harbor upgraded twelve laser jet computer printers to allow double-sided printing capabilities and plans to upgrade twelve more. Duplex copying in Information Services and the Copy Center in the year 2000 accounted for waste diversion of 10.3 tons, resulting in cost savings and a reduction in the amount of paper purchased.

Implementation Year: 1995/Ongoing

- Wood Waste Diversion Program (SR18)

The Harbor achieved wood waste source reduction from wood pilings by modifying pile driving equipment. This modification saved 3 linear feet per pile driven, or 10.8 tons in 2000, resulting in a cost savings in the amount of linear feet of wood purchased. The Harbor achieved additional wood waste source reduction from pallet exchange and wood recycling through the Bureau. Pallet exchange accounted for a savings of 3.12 tons and wood recycling accounted for 47.5 tons. Total Harbor Department wood waste reduction was 61.4 tons in the year 2000.

Implementation Year: Ongoing

- Green Waste Recycling Program (SR20)

The Harbor's Construction and Maintenance Division Gardening Section chips green waste for use as mulch on Port property. The Harbor's tree trimming contracts now require that all chipped materials be brought to the maintenance yard where they are composted. The Gardening Section uses mulching mowers for grasscycling. Source reduction of green waste was 26 tons in 2000, including 3,600 pounds in the Harbor Christmas Tree collection. These programs resulted in lowered waste hauling costs and less soil amendment purchased.

Implementation Year: 1993/Ongoing

- Non-Food Item Donations (SR29)

The Harbor has a program to maximize and document diversion of non-food (primarily office-related) item City Salvage and other sources. This program diverted 18.2 tons in 2000.

- Review Lease Agreements (NP23)

Because of the extensive procedure for renegotiating existing lease agreements, the Harbor has decided not to implement its selected alternative to modify tenant lease agreements in order to require waste reduction. Rather, incentive-based programmatic strategies and tenant education will be implemented.

Recycling

- Administrative Office Recycling Program (R18)

The Harbor administrative building implemented an office paper recovery program. Materials diverted through the program include: white and colored ledger paper; computer paper; fax paper; carbonless forms; regular envelopes; file folders; junk mail;

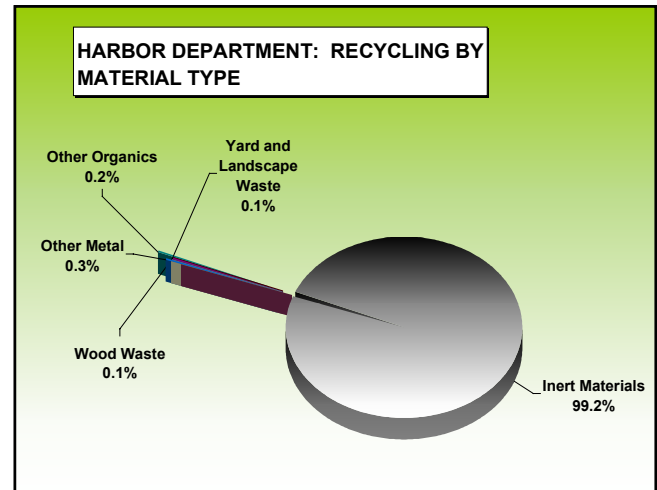
magazines; post-it notes; newspaper; corrugated cardboard boxes; and aluminum and glass beverage containers. Waste disposal savings and recycling revenues are realized from this ongoing program. 22.4 tons were diverted in 2000.

Implementation Year: 1991/Ongoing

- Toner Cartridge Recycling (R56)

The Harbor returns toner cartridges to their manufacturers for reconditioning and re-use. Since 1993, the Harbor has been collecting toner cartridges and holding salvage sales periodically, inviting companies to bid on the cartridges. The Harbor is reimbursed a small amount for the toner cartridges currently being recycled. Approximately 180 pounds were diverted in 2000.

Implementation Year: 1991/Ongoing



- Ferrous Metals Recovery Program (R58)

The Harbor has a well-established ferrous metal recovery program which captures a significant amount of the Port’s metal. However, the 1993 waste audit determined that a significant amount of ferrous metals still remained in the waste stream. The Harbor will expand its metal recovery program to include businesses not recycling ferrous metals. Ferrous metal recycling in 2000 was 135.1 tons. Car and truck batteries accounted for two tons, and so were subtracted from the total diversion tonnage.

Implementation Year: Ongoing

- Inerts Recycling Program (R68)

The Harbor’s Construction and Maintenance Division recycles asphalt and concrete demolition debris generated in the port area by crushing and stockpiling the crushed material for use on other Port projects. This program resulted in waste disposal savings of 46,852 tons in 2000, as well as procurement avoidance.

Implementation Year: Ongoing

Special Waste

- Motor Oil Recycling Program (SW13)

The Harbor currently maintains a contract with a vendor to collect used oil, oil filters, and oil products for recycling. This program is ongoing, and the Harbor will evaluate the possibility of including tenants in the program. About 3.1 tons were diverted but not included in the total diversion for the Port.

Implementation Year: Ongoing

- Tire Recycling Program (SW3)
 - The Harbor currently maintains a contract with Ocean Blue to collect and recycle (an estimated 216-240 tons annually) illegally dumped tires. This program diverted 98.3 tons of tires in 2000.

Implementation Year: 1996/Ongoing

- *Tire Recapping*: The Harbor continues the tire recapping program in the stevedore/shipping support areas.

Implementation Year: 1996/Ongoing

Education

- Distribute Educational Material (E33)

The Harbor implemented an employee education program with briefings on its office recycling program. The Harbor published articles in the employee newsletter, The rePORTer, regarding program activities.

Implementation Year: 1991/Ongoing

5.5.4 Description of Recycling Programs - Tenant Diversion

Recycling

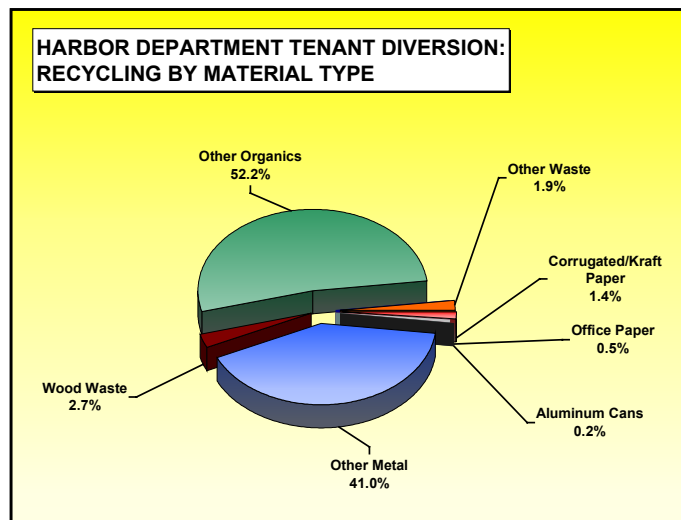
- Office Paper (R64)

The Harbor surveyed office paper recycling programs conducted by Port tenants. These programs result in waste disposal savings to the tenants as well as revenues from the office paper in some cases. In 2000, Port tenants recycled 59 tons of office paper.

Implementation Year: Ongoing

- Cardboard Recycling Program (R63)

In 1999, Port tenants recycled 171 tons of cardboard. The Harbor could help to bolster this program either by providing tenants with a cardboard vendor contact list, or by purchasing a truck outfitted with a horizontal baler and provide cardboard recycling for tenants in-house. This may be feasible only in the Ports O’Call area.



- Scrap Metal (R61)

The Harbor surveyed scrap metal recycling conducted by Port tenants. These programs resulted in waste disposal savings and revenue from the sale of scrap metal. In 1999, Port tenants recycled 5,043 tons of scrap metal.

Implementation Year: Ongoing

- Toner Cartridge Recycling (R67)

The Harbor surveyed toner cartridge recycling programs conducted by Port tenants. In 2000, tenants recycled 1,140 pounds of toner cartridges.

Implementation Year: Ongoing

- Used Beverage Container Recycling (R66)

The Harbor surveyed aluminum can recycling by Port tenants. In 2000, tenants recycled 24 tons of aluminum cans.

Implementation Year: Ongoing

- Fish Sludge Recycling (R60)

The Harbor surveyed the diversion of fish sludge from cannery operations in the L.A. Harbor. Port tenants diverted 6,414.5 tons of fish sludge in 2000.

Implementation Year: Ongoing

- Wood Waste Collection Program (R62)

The 1993 waste audit identified wood waste as a major component of the Port's waste stream. The Harbor evaluated several programs to target wood waste including:

- *Pallet and Crate Re-use Program*: The Harbor coordinated and established re-use depots near the major cargo handling areas and cruise ships terminals to promote the re-use of pallets and crates. The Harbor also assisted tenants to identify recyclers to collect broken pallets and crates. The Harbor surveyed pallet recycling conducted by Port tenants. Pallet recycling results in waste disposal savings and revenue from pallets. In 2000, pallet recycling was 308.6 tons for Port tenants.
- *Collection of Wood Waste from Tenants*: The Harbor's Recycling and Waste Reduction Committee identified vendors to take wood waste off-site for recycling. The Harbor surveyed wood recycling conducted by Port tenants. In 2000, Port tenants recycled 29 tons of wood waste.
- *Creosote-Treated Wood Waste Program*: The Harbor implemented companion tenant education with the wood waste collection and recycling efforts to keep clean wood loads from being contaminated with creosote treated wood, which cannot be recycled locally. The Harbor will continue efforts to replace creosote-treated wood with plastic lumber.

Special Waste

- Tire Recycling (SW14)

The Harbor surveyed tire recycling programs conducted by Port tenants. In 2000, tenants recycled approximately 226 tons of tires.

Implementation Year: Ongoing

Source Reduction

- Textiles Source Reduction (SR22)

The Harbor surveyed textile reuse programs by Port tenants. In 2000, tenants source reduced 5 tons of textiles.

Implementation Year: Ongoing

- Food Donation

The Harbor tenants were educated during the 1999 on-site surveys about opportunities for donation to the LA Regional Food Bank. However, no donations by Port tenants were recorded in 2000. Further education including copies of the "Good Samaritan Law" is recommended.

Implementation Year: Ongoing

- Non-Food Item Donation (SR30)

The Harbor surveyed non-food item donation programs conducted by Port tenants. In 2000, non-food item donations made by Port tenants totaled 12 tons.

Implementation Year: Ongoing

- Office Furniture Source Reduction (SR21)

The Harbor surveyed office furniture reuse and other source reduction by Port tenants. Tenants have reuse programs and this amounted to a diversion of approximately half a ton of material in 2000.

Implementation Year: Ongoing

Education

- Tenant Recognition (NP24)

The Harbor gives media exposure and recognition to those tenants that have implemented outstanding waste reduction and recycling efforts. In 1999-2000, a number of Port tenants were nominated for WRAP awards from the CIWMB.

- Tenant Recycling Survey and Education

The Harbor developed and distributed a Tenant Recycling Survey to assess level of involvement. Based on survey findings, educational materials and technical assistance was developed for tenants and the Harbor investigated cost-effective source reduction and recycling programs.

Implementation Year: 2000

- On-site Tenant Waste Reduction and Recycling Surveys

Previously covered under "Source Reduction" above, this program serves a dual purpose of surveying and educating tenants about recycling and waste reduction.

Implementation Year: 1999

Market Development

- Buy-Recycled Program

The Harbor installed recycled plastic pilings at the Port in 1991. Since then, the Harbor has procured other items made from 100% recycled plastic for various development projects including: breasting camels; fender piles; bull rails; walers; chocks; and wheel stops. The Harbor also procures recycled-content office supplies including photocopy paper, continuous computer paper, paper towels, toilet paper, and remanufactured photocopy toner cartridges.

Implementation Year: 1991/Ongoing

- Buy-Recycled Program

The Harbor recommended that vendors use materials that are re-usable, recyclable, and contain recycled-content. The Harbor Department Purchasing Division purchased recycled-content products whenever feasible. Purchasing personnel received certification training and the buy recycled program was expanded.

Implementation Year: 1996

5.5.5 Description of Programs for Future Implementation

- Source Reduction and Materials Recovery Monitoring System

The Harbor plans to implement a tracking system to be used for monitoring and evaluating its current materials recovery and source reduction efforts. Several divisions have their own tracking systems for certain materials, but no comprehensive database has been set up due to the need for a full-time recycling coordinator to manage it.

- Full-Time Recycling Coordinator

The original SRRE estimated that designated programs would require the equivalent of 0.25 of a staff position to oversee program implementation. The Harbor will request

necessary funding in future budget requests. Additional staffing (i.e., a full-time position) will be required to accelerate implementation of selected programs. The recycling coordinator will expand in-house programs, work with tenants, organize task force meetings, and oversee monitoring and reporting duties. No full-time position was budgeted in the 2000-2001 fiscal year.

- Formulate Recycling Committee

The goal is to establish a Recycling and Waste Reduction Committee with representatives from the following Harbor divisions: Environmental Management, Purchasing, Property Management, Construction and Maintenance, Management Services, Public Affairs, Graphic Services, Personnel, Engineering, and Construction Management. The Committee, which will include Port tenants, will coordinate with the SRCRD to further develop the Portwide Waste Minimization Program. This will help the Harbor gain tenant support of programs and provide tenants an opportunity to participate in diversion program evaluation and implementation.

A recycling committee composed of Harbor staff has been functioning since 1996. The core committee has been formed and may be expanded. To date, no tenants or SRCRD staff have been included.

- Technical Assistance to Tenants

The Harbor will provide technical assistance to tenants regarding materials recovery and source reduction implementation issues.

- Collection of Source Separated Material

The Harbor will contract out portions of the Port (by geographic area, generator, or material type) to different hauling companies who would develop collection routes for recovery of targeted materials.

- Collection of Source Separated Material by Waste Hauler

The Harbor Department will request current tenant waste haulers to set up recovery programs for targeted materials still being disposed by tenants.

- Green Waste Drop-offs

The Harbor will provide green waste drop-off containers at appropriate locations to be serviced by the Department.

- Cooperative Program with the Port of Long Beach

The Harbor will discuss with the Port of Long Beach the feasibility of coordinating recovery efforts for wood waste, pallets, and cardboard.

- Cruise Ship Materials Recovery

The Harbor will identify a service provider to collect source-separated materials from the cruise lines.

- Food Waste Composting

Food wastes disposed of by food processors, USDA, and restaurants will be source separated and collected for composting purposes.

- Source Reduction Options

Source reduction options the Harbor is considering include tenant technical assistance and education, a waste exchange program, assistance with product redesign, donations to charities, packaging re-use, and a waste reduction campaign.

- Purchasing Implementation Options

Modifications in purchasing practices will include information dissemination to tenants, a vendor's conference, sample packets of products containing secondary content, incentives to tenants, and modifications to custodial and construction contracts.

5.5.6 Costs, Savings, and Revenues

The original SRRE indicated that the Harbor had allocated necessary staffing, estimated at a 0.25 full-time equivalent position, to oversee program implementation requirements. In 1997, the Harbor requested the required position authority in its annual budget package. Additional staffing (i.e., a full-time position) would be required to accelerate the overall program and explore individual programs for further evaluation.