



Shoreway Transfer Station



The Transfer Station at the Shoreway Environmental Center performs the function that its name implies – a building where various materials are delivered by the general public, contractors or Recology San Mateo County’s franchised collection vehicles serving the RethinkWaste service area. The various delivered materials are consolidated by type and then loaded into large transfer trailers for shipment

offsite to either a landfill or recycling facilities. The Transfer Station is operated by South Bay Recycling (SBR) on the agency’s behalf.

The garbage is sent to Ox Mountain Landfill located off Highway 92 in Half Moon Bay, the only active landfill in San Mateo County. The C&D and other types of construction materials are sent to the Zanker Road recycling facility in San Jose. The yard trimmings and food scraps (organics) are sent to the Newby Island and Grover composting facilities located in San Jose and near Tracy, respectively.

Significant improvements were made to the Transfer Station as part of the Shoreway master plan. These include a 15,000-square-foot expansion with a separate



entrance, area and exit for the public to dump their materials. These improvements offer greater safety for the public by providing more floor space for people to dump their materials separately from large commercial vehicles. This added area also provides space for materials recycling by SBR, boosting landfill diversion. The \$5 million in Transfer Station improvements project was completed in June 2011 and expanded the building to nearly 75,000 square feet.



Member Agencies:

Town of Atherton • City of Belmont • City of Burlingame • City of East Palo Alto
City of Foster City • Town of Hillsborough • City of Menlo Park • City of Redwood City
City of San Carlos • City of San Mateo • County of San Mateo • West Bay Sanitary District

Location:

333 Shoreway Road
San Carlos, CA 94070
(650) 802-8355
RethinkWaste.org
SBrecycling.net
Access Through Gate #1

Public Hours of Operation:

Mon-Fri: 6am-6pm
Sat-Sun: 8am-5pm

Accepted Items:

Municipal Solid Waste (garbage)
Construction & Demolition Debris (C&D)
Inert Material
Dirt
Concrete/Asphalt
Yard Trimmings
Wood Waste
Food Scraps
Mattresses
Scrap Metal

Daily Tons Received:

Garbage – 750 tons
Organics – 375 tons
C&D – 125 tons



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Shoreway Materials Recovery Facility

MRF Facts:

Operations:

5 days per week

Shifts: 1 per day

Annual Capacity:

80,000 tons

Daily Tons Processed:

250 tons per day

Optical Sorters: 4

Shipping Docks: 4

If laid end-to-end, the MRF conveyors would stretch nearly a mile - longer than the middle span of the Golden Gate Bridge.

The First Solar-Powered MRF - 2,700 solar panels on the roofs supply nearly all of the power used by the sorting equipment, making this a truly green facility!

The yearly energy savings from recycling plastics will equal about 17.5 million kW, enough to power 1,650 households for one year.

The total weight of all of the recycling equipment in the MRF is approximately 3 million pounds - equal to about four 747 jumbo jets.

The Materials Recovery Facility (MRF) at the Shoreway Environmental Center is where all of the recyclables collected by Recology San Mateo County from the approximately 93,000 households and 10,000 businesses in the RethinkWaste service area are delivered, processed by type and sent to end markets for remanufacturing.

The MRF is located in a newly constructed 70,200-square-foot building. It includes state-of-the-art single stream (commingled) processing equipment designed and installed by Bulk Handling Systems (BHS), and became fully operational in April 2011. The new building and processing equipment each cost approximately \$17 million.



The MRF includes separate tipping areas for residential and commercial recyclables, which are then processed using a series of conveyors, screens, magnets and optical sorters to separate paper from containers. These materials are then further separated into newspaper, mixed paper, cardboard, glass, aluminum, tin and plastics. The MRF equipment does the bulk of the materials separation, while the sort-line workers remove non-acceptable items from the separated recyclables.

The MRF is operated by South Bay Recycling (SBR) through a 10-year contract with RethinkWaste. SBR has a partnership with the San Mateo County Vocational Rehabilitative Services (VRS) for the sorters who work at the MRF. The partnership provides job training opportunities for those with barriers of finding employment over an 18-month period in preparation for entering the work force.



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Shoreway Public Recycling Center



One of the unique features of the Shoreway Environmental Center is its redesigned Public Recycling Center easily accessible to the general public. The Public Recycling Center encompasses both a free drop-off area for such items as cardboard, scrap metal, electronics, household cooking oil, sharps, and fluorescent tubes, among others, and a buy-back area for California Redemption Value (CRV) bottles and cans.



The Public Recycling Center includes two new automated Reverse Vending Machines, where the public insert their CRV glass, plastic and aluminum containers for a cash redemption.

The Public Recycling Center is accessible via Gate 1, and is located in front of Shoreway's Materials Recovery Facility building, where all residential and

commercial recyclables are processed. The location provides the general public a safer and more convenient experience with its own entrance and exit, allowing users to drop off the materials without having to go through the Transfer Station

scales. The public is encouraged to first visit the Public Recycling Center to recycle as much materials as they can before taking them to the Transfer Station. This will help them save money while doing the right thing.



Location:

333 Shoreway Road
San Carlos, CA 94070
(650) 802-8355
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SBrecycling.net
Access Through Gate #1

Public Hours of Operation:

Mon-Sat: 8:30 am-4:00 pm

Accepted Items:

- Cardboard
- Mixed paper
- Newspaper/magazines
- Used clothing
- Electronics
- Scrap metal
- Used motor oil (max. 15 gallons)
- Used motor antifreeze (max. 10 gallons)
- Used motor oil filters
- Latex paint ONLY (max. 10 gallons)
- Fluorescent lighting tubes (household only, max. 6 tubes, less than 6 feet)
- CFLs
- Cell phones
- Household batteries
- Car batteries
- Household goods in working condition
- Hard and soft cover books
- Cooking oil (home generated only, max. 15 gallons)
- Sharps

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Shoreway Environmental Education Center

Location:

333 Shoreway Road
San Carlos, CA 94070

Parking:

Visitors Parking Lot
Gate 2

School Groups Tour Hours:

Monday
12:30 pm – 2:30 pm

Tuesday-Wednesday
9:30 am - 11:30 am
12:30 pm - 2:30 pm

Thursday
9:30 am - 11:30 am

*All tours must be
scheduled in advance*

Open House Days

Hours:

Monthly each 3rd Thursday
9:30 am - 10:30 am
11 am - 12 pm

For information and to schedule a tour:

Tours@RethinkWaste.org
(650) 802-3506
RethinkWaste.org

The Environmental Education Center at the Shoreway Environmental Center is designed to help educate visitors about sustainability and recycling. It includes museum-quality exhibits, reuse art, a talking robot and an educational classroom. The Environmental Education Center is a key component of the free tour programs offered to schools and the general public.



School Tours Program

Tour participants learn about resource conservation and the 4Rs (Reduce, Reuse, Recycle and Rot), and have the unique opportunity to see firsthand what happens to garbage, recyclables, yard trimmings and food scraps once they are picked up from their homes and businesses. The approximately two-hour tour includes visiting Shoreway's Transfer Station, Materials Recovery Facility (MRF), and the Environmental Education Center.



RethinkWaste provides bus transportation for 4th through 6th grade classes for both public and private schools in the RethinkWaste service area. Tours are also offered to other grades, as well as schools outside of the RethinkWaste service area as scheduling allows, (free busing assistance is not available.)



Public Open House Days

In addition to the School Groups Tour program, RethinkWaste holds Public Open House Days at Shoreway, geared to providing community groups and the general public an opportunity to tour the facility. The Public Open House Days are held the third Thursday of every month, from 9:30 am to 10:30 am and 11 am to 12 pm. Reservations are recommended but not required to ensure space availability.



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Shoreway Environmental Center

The Shoreway Environmental Center, California's greenest Recycling Center and Transfer Station, serves as a regional solid waste and recycling facility for the receipt, handling and transfer of recyclables, organics and garbage from the RethinkWaste service area (southern and central San Mateo County.)



Owned by RethinkWaste, a public agency, Shoreway serves as a national model for sustainable building practices and innovative recycling and material handling operations. A certified LEED® Gold facility from the U.S. Green Building Council, the Shoreway Environmental Center is a 2012 Recycling Systems Excellence Gold Award recipient from the Solid Waste Association of North America (SWANA), the top national award for a recycling facility.

The facility, which sits on 16 acres in San Carlos, is operated by South Bay Recycling (SBR) on the Agency's behalf and is permitted to receive 3,000 tons per day. Recology San Mateo County is the franchised collection services provider for the RethinkWaste communities. A grand opening was held on September 27, 2011 to mark the completion of a \$46 million master plan construction project to transform the former outdated facility into the new Shoreway Environmental Center. The three-phase capital project included traffic improvements, a new state-of-the-art Materials Recovery Facility (MRF), an expanded Transfer Station, a new Environmental Education Center, and green building features all designed to increase customer convenience and safety. Groundbreaking on the

construction project took place in December 2008.

RethinkWaste purchased the Shoreway Environmental Center, then known as the Shoreway Recycling and Disposal Center, in 2000 from BFI Waste Systems of North America.



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facebook.com/rethinkwaste
twitter.com/rethinkwaste

About RethinkWaste:

Rethink Waste is a joint powers authority of twelve public Agencies in San Mateo County, California and is a leader in the delivery of innovative waste reduction and recycling programs.

RethinkWaste also provides strategic oversight, support and management of service providers that collect, process, recycle and dispose of materials for its Member Agencies.

RethinkWaste (i.e., South Bayside Waste Management Authority) was formed in 1982.



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Public Hours of Operation:

Public Recycling Center
Mon-Sat: 8:30am-4pm

Transfer Station
Mon-Fri: 6am-6pm
Sat-Sun: 8am-5pm



The Shoreway Environmental Center functions as an integrated recycling and waste management campus with separate buildings used as follows:

Transfer Station:

The Transfer Station is used for the unloading and transfer of garbage, construction and demolition (C&D) debris, and organics from public and private vehicles.

Materials Recovery Facility(MRF):

The MRF is used for the unloading and processing of recyclables from homes and businesses; and the shipment of commodities to domestic and export markets.

Public Recycling Center:

The Public Recycling Center at the front of the complex offers the buyback of recyclables, and free drop off of a wide variety of materials such as electronic waste (TVs, computers, etc.) and some household hazardous waste (batteries, paints, waste oil, etc.) items.

Environmental Education Center:

RethinkWaste offers free tours to schools and the general public of the Shoreway Environmental Center. Visitors learn about resource conservation, the 4Rs and what happens to materials once they are picked up from homes and businesses.

Recology San Mateo County Offices:

Recology has its administrative offices located at 225 Shoreway Road, San Carlos and is open to the public for bill payments and customer questions. Recology's operations yard is also located at Shoreway.

South Bay Recycling (SBR) Offices:

SBR, which operates the Shoreway Environmental Center on behalf of RethinkWaste, has its administrative offices housed in the MRF building. SBR's operations yard is also located at Shoreway.

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“Greenest Recycling Center & Transfer Station”

As a public agency dedicated to promoting resource conservation and recycling, RethinkWaste wanted to ensure that the Shoreway Environmental Center reflected the Agency’s core sustainability goals and values. This included the incorporation of LEED® and sustainable design features as part of the entire facility master plan project. Shoreway was certified LEED® Gold from the U.S. Green Building Council in June 2012.

Solar-Powered MRF

Approximately 100% of Shoreway’s MRF sorting equipment energy needs are supplied through the installation of 2,700 photovoltaic panels on the roofs of the MRF and Transfer Station buildings in December 2011. The solar project is one of the largest installations in the Bay Area, and is estimated to save approximately \$2.1 million in energy costs over the next 20 years for RethinkWaste.



Ecoplexus installed the solar panels through a Solar Power Purchase Agreement (PPA,) which includes financing, owning, operating and maintaining the photovoltaic system. In return, RethinkWaste will host the system and purchase the electric output for a predetermined price over the life of the 20-year contract.

Other Green Features

- Window shade features and white roofs (cool roofs) have been installed on all new buildings. The white roof cools the surrounding area by reflecting the sun’s heat instead of absorbing it. Reducing the temperature on the building’s roof results in lower energy usage.
- Many resource conservation features were included in the construction, such as: translucent roof and wall panels to reduce lighting needs, high-efficiency motors in the sorting equipment to reduce power use, bio-swales and a rainwater harvest tank to conserve water.
- Building materials such as concrete and steel framing members are made up of post-consumer recycled content. Using materials with recycled content reduces the demand on virgin materials and saves valuable resources.
- Wood-based products are certified to be from sustainable timber that preserves the integrity of the forest ecosystem by maintaining soil and water quality.
- A comprehensive construction waste management plan diverted 95% of construction waste and debris from the landfill during construction of the new buildings.

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Shoreway’s Solar Facts:

2,700 photovoltaic panels
Produces 650 kilowatts per hour

Supplies 100% of MRF needs

Produces enough power to run nearly 6,000 60-watt light bulbs for 8 hours

\$2.1 million estimated savings in energy costs over 20 years

Reduces carbon dioxide emissions by nearly 1.6 million pounds per year

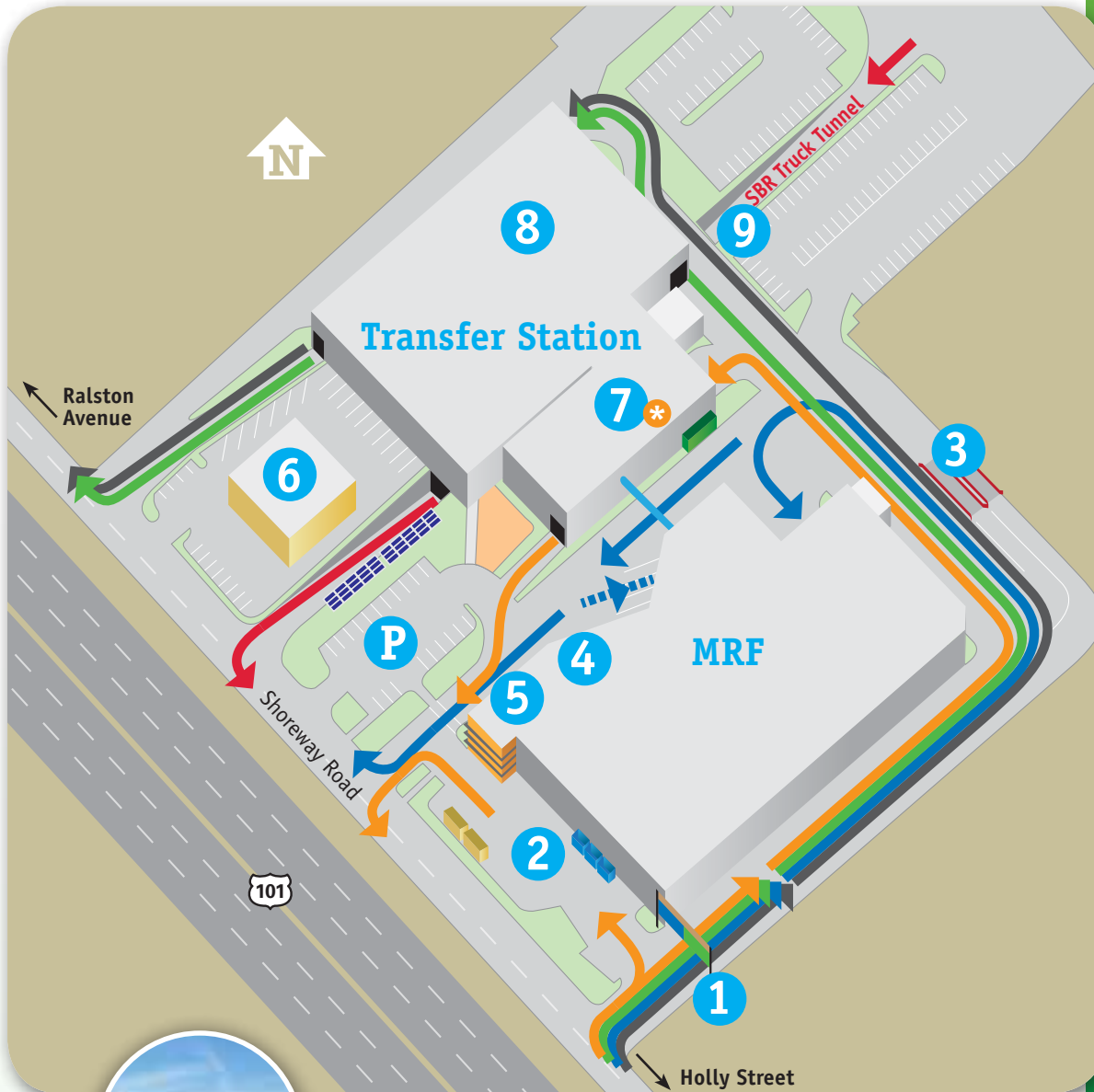
Equivalent of removing 252 cars from the road annually

Largest installation in San Mateo County

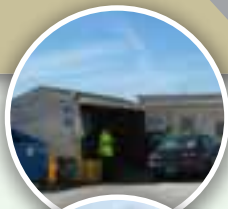


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Shoreway Environmental Center



- P** Visitor Parking Lot
- 1** Gate 1 Entrance
- 2** Public Recycling Center
- 3** Scales, all vehicles
- 4** South Bay Recycling Offices
- 5** Education Center
- 6** Recology San Mateo County Administration Offices
- 7** Transfer Station, Public Side
- 8** Transfer Station, Commercial Side
- 9** Transfer Station, Loading Tunnel
- *** Free Compost Area



Public Vehicles - Transfer Station **7**, Recycling **2** and *****Free Compost Area

Recology Green Route - Compost/Organics Trucks **8**

Recology Blue Route - Recycling Trucks

Recology Black Route - Garbage Trucks **8**

South Bay Recycling Route - Transfer Trailers, Trucks Taking Garbage to Landfill and Compost to Compost Processors **9** (Loading Tunnel)

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