



Bow Lake Recycling and Transfer Station

Fact Sheet

Overview: Bow Lake Recycling and Transfer Station is located on a 20-acre property in Tukwila. It includes a waste transfer building, scalehouse, and recycling areas. It is bordered by Interstate 5 on the west side, privately owned property on the east side, the intersection of Orillia Road and South 188th Street to the south, and undeveloped, privately owned land to the north. The facility opened in July 2012, with expanded recycling added in October 2013, and replaced an older station built in 1977. It is the busiest transfer station in the King County system, processing about one third of the total tonnage. The station serves residents and businesses largely from the Auburn, Burien, Des Moines, Federal Way, Kent, Renton, SeaTac, and Tukwila areas.

Location: 18800 Orillia Rd S, Tukwila, WA 98188

Hours of operation:

Station Hours

Mon-Thurs: 24 hours

Fri: 12 a.m. – 11:30 p.m.

Sat & Sun: 8:30 a.m. – 5:30 p.m.

Closed on Thanksgiving, Christmas, and New Year's Day

Recycling Area Hours (located outside transfer building)

Mon-Fri: 6 a.m. – 8 p.m.

Sat & Sun: 8:30 a.m. – 5:30 p.m.

What happens to the waste? The waste is transported by county employees in covered trailers from Bow Lake to the Cedar Hills Regional Landfill, 17 miles away.

What happens to recyclable materials? Recyclable materials are separated by type and distributed to local, national or international markets for processing into recycled content products. Reusable materials (bikes and textiles) are donated to local non-profits.

Notable features:

- The building has easy-to-use unloading areas, giving customers more room to maneuver and reducing wait times. It is also designed to protect customers and workers from the weather and to contain noise, dust, and odors. The building design allows high-volume waste handling while providing the flexibility to allow selective material recovery.
- Recycling and resource recovery
 - Outside the main building is an area that allows for collection and sorting of numerous recyclable materials. (See page two for a list of those materials).
 - Inside the main building, next to where self-haul customers unload, there are recycling bins for cardboard, clean wood, and scrap metal to encourage additional recycling.
- Water conservation efforts include:
 - Rainwater collected from the rooftop is stored in two vaults that hold up to 30,000 gallons of water which is used to wash tipping and receiving floors, compactors and compactor bays, and truck wheels.
 - Low-flow water fixtures.
 - The landscape design includes drought-tolerant native plants.
- Energy conservation efforts include:
 - Skylights on the roof and translucent windows on the east and west walls allow natural light to filter into the building.
 - Energy efficient fixtures and equipment
 - Excess heat capture and reuse
 - Solar panels generate 2.5 percent of the building's annual energy use.



Andy Cao and Xavier Perrot's "Confetti Cloud" sculpture gives new life to glass fragments harvested from a landfill at the renowned Pilchuck Glass School.



Customers unload waste onto the receiving floor



Recycling Area



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- An automated traffic management system promotes an efficient traffic flow, allows scales to be reversed and reconfigured to help clear heavy traffic, and provides the flexibility to serve customers with mixed loads of waste and recyclable materials.
- Recycled-content materials are used throughout the building, including recycled steel in the building structure, a cement substitute called fly ash, concrete rubble backfill, asphalt with recycled roofing content, , recycled glass countertops, recycled-content gypsum board, insulation, and glazing. Bamboo plywood and Forest Stewardship Council-certified wood are two other examples of sustainable materials used in the building's construction.
- Two pre-load compactors allow for more efficient packing of trailers bound for King County's Cedar Hills Regional Landfill in Maple Valley.
- Funded by the 1% for Art Program and designed by artists Andy Cao and Xavier Perrot, "Confetti Cloud" invites viewers to see creative possibilities in ordinary recyclable materials.

2017 at a glance

- **Who are the customers?** 79 percent of visits were made by self-haul customers, who contributed 24 percent of the total solid waste received at the station. Commercial customers contributed 76 percent of the total solid waste with 21 percent of the visits.
- **Tons of solid waste disposed:** 285,874. This constitutes 31 percent of the solid waste at all King County transfer stations.
- **Total customer visits:** 212,035
- **Recycling services provided:**
 - Appliances
 - Bicycles and bicycle parts
 - Cardboard*
 - Mercury-containing light bulbs and tubes
 - Scrap metal*
 - Textiles
 - Wood (clean, untreated)*
 - Yard waste*
 - The following can be combined in the large blue "Recyclable Materials" containers:
 - o Paper, including office paper, junk mail, envelopes, newspapers, magazines, catalogs, paper food boxes, cartons such as milk, juice and broth cartons, paper cups, shredded paper if securely tied in clear plastic bags, and hard and paperback books
 - o Cans (aluminum, tin, steel)
 - o Glass bottles and jars
 - o Plastic bottles, cups, jugs, tubs, pots, food containers, clamshells, trays
 - o Lids (3 inches or more)

* These materials must be recycled at facilities that accept these materials for recycling.

• Recycling Tonnage

In 2017, 5,711 additional tons were recovered than in 2016.

Cardboard	Mixed Paper	TAP	Glass	Metal	Yard Waste	Clean Wood	Appliances	Total
706	139	37	77	1,222	4,080	1,498	152	8,023

Awards and recognition:

- **Leadership in Energy and Environmental Design (LEED™):** The LEED Green Building Rating System™ recognizes environmental leadership in the building industry. The U.S. Green Building Council has certified Bow Lake with the highest level of certification – Platinum – recognizing its state-of-the-art strategies.
- **SWANA Award:** In 2014, the King County Solid Waste Division won the Solid Waste Association of North America Award for Excellence in Transfer Stations in recognition of the Bow Lake Recycling and Transfer Station.
- **American Council of Engineering Companies:** Excellence in Design – Silver was awarded to King County in recognition of Bow Lake's Automated Traffic Management System.
- **Engineering News Record:** Energy/Industrial Green Project of the Year (2014) and Project of the Year Finalist (2014)
- **Washington Asphalt Pavement Association:** 2014 Special or Innovative Use Award for use of recycled asphalt shingles
- **Northwest Construction Consumer Council:** *Green Project of the Year* (2013) for Achievement in Sustainability

Alternative Formats On Request
206-477-4466 • TTY Relay: 711

<http://your.kingcounty.gov/solidwaste/facilities/bowlake/index.asp>



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