

ANATOMY OF A LANDFILL

AND RESOURCE RECOVERY FACILITY



OC Waste & Recycling
Our Community. Our Commitment.

LANDFILL GAS CONVERSION

Decomposing waste in landfills naturally produces methane gas. The gas is collected through pipes then sent to a facility for conversion to renewable energy or to be flared.

DESILTING BASIN

Desilting basins help protect our streams and ocean. They capture storm water runoff and trap sediment, keeping it from entering the regional stormwater management infrastructure.

CONDENSATE AND LEACHATE STORAGE TANKS

Leachate is liquid that results from decomposing waste. Condensate is the liquid that forms inside the landfill gas collection system. These liquids are collected and stored in tanks. Some of the collected liquid is used for dust control.

WINDROW COMPOSTING

Greenwaste that comes from OC residents' curbside bins is a resource. Through composting, it becomes a soil amendment that eventually is returned to the community. The process takes from three to six months, and specially trained OCWR staff monitor, turn and test the piles.

CREATING A CELL

Each day trash is placed, compacted and covered with a layer of soil or tarps in sections until a specified size is reached, forming a cell.

GROUND WATER MONITORING WELL

GAS MONITORING PROBE

Proactive Soil Cover

Fabric Filter

Gravel

Plastic Liner

Low Permeable Layer

Native Subgrade

Leachate Collection Pipes

Condensate Collection Pipe

Leachate Collection Pipe

ENVIRONMENTAL PROTECTION

1 Wells are used to monitor for any impacts from the landfill to the groundwater beneath the landfill.

3 Portable screens are used to trap and collect any stray litter, to keep it from flying away. They can be moved based on wind directions.

5 Hundreds of probes monitor subsurface gas at various elevations and detect if any escapes.

7 Bird Abatement – A falconry program keep birds from feeding on waste, keeping trash where it belongs for a safer and cleaner community.

2 To control dust, trucks spray dirt areas as needed using liquids recycled from the landfill.

4 Special misting machines spray a very fine mist into the air to help confine odors.

6 In addition to waste disposal OC's landfills also serve as Resource Recovery Facilities, which divert resource materials such as greenwaste, metal and mattresses for reuse. Resource recovery preserves landfill capacity that is an important component of our community's waste management system.

8 Legislation – New state laws make recycling more important than ever, with food and green waste as a big part of the recycling stream.

WHAT GOES WHERE TIPS & GUIDE

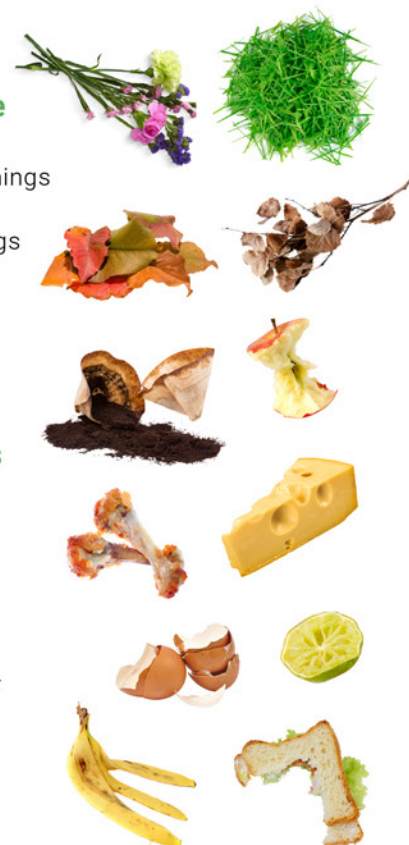
ORGANIC RECYCLING

Green waste

- Weeds
- Garden trimmings
- Cut flowers
- Grass clippings
- Leaves
- Wood chips

Food scraps

- Fruit
- Bread
- Fish
- Meat
- Vegetables
- Dairy
- Coffee + filter



NON-ORGANIC RECYCLING

Paper

- Cardboard
- Magazines
- Newspaper
- Phone books

Plastic

- Bottles
- Jugs

Metal

- Aluminum and Tin cans

Glass

- Bottles
- Jars



LANDFILL

Ceramic/Pyrex

Mirrors

Styrofoam

Waxed paper products

Wet or soiled paper products

Palm Fronds (branches)

Diseased plants

Pet waste

Mixed products

Coated materials



HOUSEHOLD HAZARDOUS WASTE For OC Residents



Orange County Free Household Hazardous Waste Collection Centers

9 a.m. to 3 p.m. Tuesday through Saturday
Closed on major holidays and rainy days
*Max 15 gallons or 125 pounds per trip



Anaheim
1071 N. Blue Gum Street

Huntington Beach
17121 Nichols Lane – Gate 6

Irvine
6411 Oak Canyon

San Juan Capistrano
32250 La Pata Avenue

ALWAYS CHECK DETAILS WITH YOUR HAULER

