

# Recycling

## *The Basics*

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Assistance Section



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1-800-447-2827 [www.TexasEnviroHelp.org](http://www.TexasEnviroHelp.org)



# SBLGA Programs Offer:

- ☑ Technical Assistance  
*with understanding the rules and meeting requirements*
- ☑ One to One Help
- ☑ Compliance Tools
- ☑ Free & Confidential



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# Getting Help

★ Hotline

★ 1-800-447-2827

★ M-F 8:00am-5:00pm

★ [www.TexasEnviroHelp.org](http://www.TexasEnviroHelp.org)

★ Office & Site Visits



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# Topics

- Recycling
- Composting
- Scrap Tires
- Other Recyclables
- E-recycling
- Household Hazardous Waste



# **Material Recovery Facilities**

## **30 TAC 330**



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# Non-Source Separated Recycling

- MSW Processing Facilities that separate recyclable materials from a municipal solid waste stream must be *permitted* or *registered*.
- **Contact MSW Permits**
  - 512-239-2334
  - [mswper@tceq.state.tx.us](mailto:mswper@tceq.state.tx.us).



# MSW Permit or Registration?

- **330.9 Registration** required if recovering 10% or more by weight of total incoming waste for reuse/recycling or beneficial use
- **330.7 Permit** required for those facilities not meeting the 10% recovery requirement for registration



# Industrial Sources

- Reporting Requirements
  - TCEQ-0524 if you receive non-haz industrial materials
  - TCEQ-0525 if you are a generator recycling hazardous or industrial waste
- Facilities managing recyclable hazardous materials from industrial sources – 335.2 and 335.24







# Recycling

**30 TAC 328**



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# Source-Separated Recycling

- If a facility receives, processes, and returns to use only nonputrecible, source-separated recyclable materials diverted from a municipal solid waste stream, the recycling facility will be exempt from **permitting** and **registration** requirements provided it complies with certain requirements.



# Source-Separated Recycling (cont)

- Must meet:
  - General requirements for all recycling facilities (328.3);
  - Storage requirements (328.4);
  - Recordkeeping & reporting requirements (328.5)



# If you:

- Are a local government, agency of state or federal government; **or**
- Receive > 50% of your materials from:
  - Generators/haulers not affiliated with the facility or from the public; **and** receives **no financial compensation**; **and**
  - Material is potentially recyclable; **or**



## If you: (cont)

- Are a smelter of recyclable metals or affiliated with a smelter; **or**
- Are owned/operated by a person who holds a permit to dispose of municipal solid waste;
- **You may be exempt from requirements for storage and recordkeeping & reporting.**



## Storage Requirements 328.4

- Store only source-separated, non-putrescible recyclable materials.
- Materials must be shipped to prevent accumulation (50% every 6 months).
- Limit non-recyclables (<10% per load & <5% per 6 months) and keep records.
- **Waste must be disposed of properly!**



# Reporting & Recordkeeping 328.5

- Notice of Intent (NOI) – TCEQ-20049
- Core Data Form – TCEQ-10400
- Fire Prevention Suppression Plan
- Financial Assurance (if storing combustible materials outdoors)



# Fire Prevention & Suppression Plan

- Facilities managing combustible materials outdoors
- Must be available to local fire prevention authority for review and coordination
  - Consult with the local Fire Marshall or
  - City and/or county designated personnel for guidance





# Bexar County Requirements 328.4(G)

- All recycling & composting/mulching facilities are subject to storage limitations and recordkeeping and reporting requirements.
  - Time limits for processing;
  - Fire lanes;
  - Pile sizes;
  - NOI required (328.5)



# Recycling: Best Link!

The screenshot shows a Windows Internet Explorer browser window displaying the Texas Commission on Environmental Quality (TCEQ) website. The address bar shows the URL: [http://www.tceq.state.tx.us/permitting/waste\\_permits/msw\\_permits/MSW\\_amIregulatedrecycling.html](http://www.tceq.state.tx.us/permitting/waste_permits/msw_permits/MSW_amIregulatedrecycling.html). The page title is "Recycling: Am I Regulated? - Texas Commission on Environmental Quality".

The website header includes the TCEQ logo and navigation links: Home | AIR | LAND | WATER | Public | Businesses | Governments. A search bar and "A to Z Index | Org Chart" are also visible.

The main content area is titled "Recycling: Am I Regulated?". It includes a breadcrumb trail: "You are here: Home → Permitting → Waste Permits → MSW Permits → Recycling: Am I Regulated?". A contact email, [mswper@tceq.state.tx.us](mailto:mswper@tceq.state.tx.us), is provided for questions or comments.

The page lists "Storage limits, and recordkeeping and reporting requirements for Texas operations that recycle materials diverted from municipal solid waste streams." The content is organized into a list of links:

- Overview
  - Recyclable Materials
  - Combustible Materials
  - Incidental Waste
- General Requirements
- Storage, Reporting, and Recordkeeping Requirements
  - Storage
  - Reporting
  - Recordkeeping
- Additional Reporting Requirements for Nonhazardous Industrial Materials
- Financial Assurance
- Auto Recycling
- More Information and Publications

The "Overview" section is titled "Recyclable Materials" and begins with the text: "If you receive, process, and return to use only nonputrescible, *source-separated* recyclable materials diverted from a municipal solid waste stream, your recycling facility will be exempt from permitting and registration requirements provided you comply with general requirements and with certain storage, handling, and..."

The browser status bar at the bottom indicates "Done, but with errors on page." and shows the Internet icon and 100% zoom level.



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# Composting

**30 TAC 332**



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# Composting: Permit Required Tier

- If you compost grease trap wastes or mixed municipal solid waste that is not positively sorted, a permit is required.
- **Contact MSW Permits**
  - Phone: 512-239-2334
  - Email: [mswper@tceq.state.tx.us](mailto:mswper@tceq.state.tx.us)



# Composting: Registration Tier

- If you compost:
  - Municipal sewage sludge
  - Organic materials
  - Disposable diapers
  - Paper sludges
- **Contact MSW Permits**



# Composting: Notification Tier

- If you compost:
  - Source-separated meat, fish, dead animal carcasses or dairy materials,
  - Source-separated meat & vegetable oils & greases
- You must complete and submit:
  - NOI Compost Form No. 1 (TCEQ-0651)
  - Core Data Form (TCEQ-10400)
  - Closure cost estimates/financial assurance.



# Composting/Mulching Facilities

- Air quality standard permit (332.8)
  - At least 50' setback distance for all receiving, processing, storage (feedstock or product) areas
- Water quality permit
  - Required for livestock manure composting operations for wastewater discharges.



# Composting: Exempt Tier

- Source-separated yard trimmings, clean wood, vegetative material, paper, & manure;
- Ag materials generated & composted on agricultural sites;
- Mulching





# Composting: Exempt Tier (cont)

- Land application at or below agronomic rates set by Ag Extension Service
- Application of paper for erosion control or soil amendment
- On-site composting of non-haz industrial waste\* 332.4(10)(a)-(j)



# Composting: Exempt Tier (cont)

- Must comply with:
  - General requirements in 332.4 and
  - Air quality requirements in 332.8



# Composting: Exempt Tier (cont)

- Composting/mulching operations must also comply with: (unless excluded)
  - **328.4** storage of recyclable materials
  - **328.5** reporting and recordkeeping
    - Notice of Intent (TCEQ-20049)
    - Core Data Form (TCEQ-10400)
    - Financial Assurance/closure cost estimate



# Composting/Mulching: Best Link!

The screenshot shows a Windows Internet Explorer browser window displaying the Texas Commission on Environmental Quality (TCEQ) website. The address bar shows the URL: [http://www.tceq.state.tx.us/permitting/waste\\_permits/msw\\_permits/MSW\\_amIregulatedcomposting.html](http://www.tceq.state.tx.us/permitting/waste_permits/msw_permits/MSW_amIregulatedcomposting.html). The page title is "Composting and Mulching: Am I Regulated?". The website header includes the TCEQ logo and navigation links for Home, AIR, LAND, WATER, Public, Businesses, and Governments. A breadcrumb trail indicates the current location: Home → Permitting → Waste Permits → MSW Permits → Composting and Mulching: Am I Regulated?. The main content area features a section titled "Composting and Mulching: Am I Regulated?" with a sub-heading "Requirements for composting or mulching materials diverted from a municipal solid waste stream. Links to guidance and relevant forms." The text explains that operations involving source-separated yard-trimmings, clean wood material, vegetative material, paper, and manure are exempt from permit, registration, and notification requirements if they comply with Title 30 Texas Administrative Code (30 TAC) Chapter 332, Section (§) 332.3(d). Other operations may require notification, registration, or a permit. A list of links includes: Exempt operations, Operations requiring a compost notification, Operations requiring a compost registration, Operations requiring a compost permit, and Information for all Composting and Mulching Operations. A note specifies that facilities in Bexar County must read about additional requirements for facilities in Bexar County, effective September 10, 2009. Another section titled "Requirements for Exempt Composting and Mulching Operations" lists activities exempt from TCEQ compost permit, registration, and notification requirements by 30 TAC § 332.3(d). The browser's status bar at the bottom shows "Error on page." and "Internet" with a 100% zoom level.



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# Scrap Tires

30 TAC 328, Subchapter F



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# Scrap Tire Generators

- Register if storing >500 tires on the ground
- Monitor tires stored every 2 weeks for vectors
- Document all tires removed (manifest)
- Use only registered transporters
- Use only authorized facilities
- Manifest even if hauling your own tires



# Scrap Tire Transporters

- **Register** if collecting tires from another business – TCEQ-10297
- Exemptions from registration
  - Generators hauling their own tires
  - OSSF installers hauling shreds
  - Vehicles collecting MSW
  - Local government vehicles
  - Retreaders



# Scrap Tire Transporters (cont)

- Vehicles must be marked
- Maintain records (manifest system)
- Annual report (TCEQ-10311)
- Transport to authorized facility
- Store <500 tires, or register as storage facility



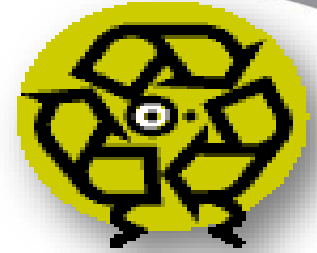


# Scrap Tire Facilities

- Processing operations (shred, bale, recycle, or energy recovery)
  - Registration
  - Annual Report
  - If storing >500 tires, must register as a storage site
  - Local government approval



# Other Recyclables



- Used Oil
  - Generator (DIY) requirements
    - No registration
    - Can transport <55 gallons
    - >55 gallons – use registered transporter
    - Registered disposal/collection facility
    - Storing > 1320 gal – SPCC required\*



# Other Recyclables (cont)

## – Used Oil Collection Centers

- Registration required
- Containers must not leak & must be marked “Used Oil”
- Spills must be cleaned up
- Spills of 25 gallons or more must be reported
- Use registered transporter if >55 gal
- Registered disposal facility



# Other Recyclables (cont)

- Used Oil Filters
  - Generator requirements (business)
    - Register – Used Oil Filter Collection Center if storing > six 55 gallon drums
    - >two 55 gallons – use registered used oil transporter
    - Registered used oil processing facility
    - **Never put used oil filters in the trash!**



# Other Recyclables (cont)

- Used Oil Filters (cont)
  - Transporter requirements
    - Notification of Regulated Activity (EPA8700-12);
    - Used Oil/Filter Handlers Form (TCEQ-10062);
    - Core Data Form



# Other Recyclables (cont)

- Lead-Acid Batteries
  - Reclaiming batteries: must register
  - Sending off-site for reclamation: no registration required
  - Store & transport safely to protect the environment
  - Properly contain spills and report



## Other Recyclables (cont)

- Rules for Lead-Acid Batteries
  - Lead-Acid Battery 335.251
  - Universal Waste Rule 335.261



# E-Recycling

- Regulations
  - 328.3 – 328.5 Recycling NOI (unless excluded)
  - 106.261 & 106.262 – Permits by Rule
  - Financial Assurance (may be required)
- Compliance Resources

[www.tceq.texas.gov/assistance/industry/e-recycling/recycling-compliance/](http://www.tceq.texas.gov/assistance/industry/e-recycling/recycling-compliance/)





# E-Recycling – Waste

- Hazardous waste determination on waste being discarded
- Items exempt from being a solid waste if recycled:
  - Scrap metal,
  - Shredded circuit boards (switches & batteries removed),
  - CRTs



# E-Recycling – Water

- The site's SIC code triggers industrial storm water requirement
- May be able to meet Conditional No Exposure Certification (NEC)
- Must renew NEC every permit renewal period (5 years)



# Texas Recycles Computers

- Computer manufacturers offer convenient recycling program free to Texas consumers
- [TexasRecyclesComputers.org](http://TexasRecyclesComputers.org)
- Not applicable to businesses/industries



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# Texas Recycles Computers (cont)

- Computer equipment defined:
  - A monitor;
  - A desktop computer or laptop, and;
  - An accompanying keyboard and mouse made by the same manufacturer



# Resources

- Regulations, Resources, and Guidance on Recycling Electronic Equipment

[www.tceq.texas.gov/assistance/industry/e-recycling/e-recycling-regs.html](http://www.tceq.texas.gov/assistance/industry/e-recycling/e-recycling-regs.html)

- Small Business & Local Government Assistance

[www.tceq.state.tx.us/assistance/sblga/sblga.html](http://www.tceq.state.tx.us/assistance/sblga/sblga.html)



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# Household Hazardous Waste

- Examples of HHW
  - Fluorescent lightbulbs
  - Oil-based paints
  - Some latex paints
  - Some wood stains
  - Fuels (gasoline, propane, diesel)
  - Corrosive cleaners



# HHW (cont)

- Drain cleaners
- Pool chlorine and acid
- Automotive batteries
- Nickel-cadmium batteries
- Some pesticides
- E-waste vs. E-collection



# HHW Collection Programs

- HHWs are excluded from being hazardous by federal regulations and may be disposed of in a landfill
- **Better option** - Household Hazardous Waste Collection Programs
- **Want to organize an event?**
  - Call: 512-239-3143
  - Email: [recycle@tceq.state.tx.us](mailto:recycle@tceq.state.tx.us)





# HHW Collection Events

- Notification 45 days prior to event
- Operational plan required
- Arrange for proper processing/disposal at hazardous waste facility
  - Licensed hazardous waste transporter
  - May need financial assurance



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*[www.TexasEnviroHelp.Org](http://www.TexasEnviroHelp.Org)*

*Confidential Hotline:*

**1-800-447-2827**

**Monday – Friday**



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