



# **Municipal Solid Waste in Texas: *A Year in Review***

*FY 2016 Data Summary and Analysis*



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FY 2016 Data Summary and Analysis

Prepared by  
Waste Permits Division

AS-187/17  
October 2017

[www.tceq.texas.gov/assets/public/comm\\_exec/pubs/as/187-17.pdf](http://www.tceq.texas.gov/assets/public/comm_exec/pubs/as/187-17.pdf)



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Published and distributed  
by the  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin TX 78711-3087

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# General Information

*Municipal Solid Waste in Texas: A Year in Review* is prepared by the Municipal Solid Waste (MSW) Permits Section of the Texas Commission on Environmental Quality (TCEQ). The summary includes data on the types and amounts of waste disposed and processed at the state's permitted and registered MSW facilities. The report also includes an estimate of the state's remaining MSW landfill disposal capacity.

## Reporting Period

Reports from MSW facilities are based on a fiscal year, which runs from September 1 through August 31. All references to 2016 in this annual summary are related to fiscal year 2016 (September 1, 2015 through August 31, 2016).

## Reporting Requirements

In accordance with Title 30 of the Texas Administrative Code (30 TAC), Chapter 330 (Municipal Solid Waste), Subchapter P (relating to Fees and Reporting), MSW facility operators are required to submit an annual report to the TCEQ covering the types and amounts of waste processed or disposed at an authorized facility.

## Data Sources

The data in this summary were from annual reports submitted by owners or operators of 195 active landfills and 202 active processing facilities. The submitted data were reviewed, and discrepancies were reconciled with facility representatives, quarterly report data, and agency records (MSW Records).

Facility reports included:

- operational information (e.g., which counties the facility serves),
- administrative information (e.g., who owns or operates the facility),
- facility activities (e.g., types and amounts of waste accepted for disposal or processing at a facility), and
- facility characteristics (e.g., landfill elevations, monitoring well data, other authorizations within a facility authorized boundary)

Population data were obtained from the U.S. Census Bureau's *Annual Estimates of the Resident Population for Counties: April 1, 2010 to July 1, 2016*, available at [www.census.gov/data/tables/2016/demo/popest/counties-total.html](http://www.census.gov/data/tables/2016/demo/popest/counties-total.html).





# Facility Information

MSW facilities in Texas are classified according to the method of processing or disposal (30 TAC §330.5).

## Landfills (disposal facilities)

This section provides a summary of MSW landfill types, activity, and capacity in 2016.

### ***Type I landfill***

A Type I landfill is the standard landfill for MSW disposal in Texas. In 2016, there were 98 Type I facilities, accounting for 50% of all active landfills, about 89 % of the total waste disposed, and 95% of the total statewide remaining capacity.

### ***Type IV landfill***

A Type IV landfill only accepts brush, construction or demolition (C&D) waste, and other similar nonputrescible waste. In 2016, there were 22 Type IV facilities, accounting for 11% of all active landfills, almost 10% of the total waste disposed, and 4% of the total statewide remaining capacity. These landfills were not distributed evenly across the state; approximately 64% were in the Houston-Galveston Area Council's region (COG-16).

### ***Arid-exempt (AE) landfill***

Type I and Type IV landfills in relatively dry parts of the state may be permitted as arid-exempt (AE) landfills. These landfills are exempt from liner and groundwater monitoring requirements, but are limited in the amount of waste they may accept (30 TAC §330.5(b)). In 2016, there were 69 AE landfills, accounting for approximately 36% of the total number of active landfills, 1% of the total waste disposed, and 1% of the total statewide remaining capacity.

### ***Monofill***

Counties or municipalities with 12,000 or fewer people may obtain a permit by rule under 30 TAC §330.7(i) to dispose demolition waste from properties with nuisance or abandoned buildings into disposal facilities that are owned or controlled by a county or municipality. In 2016, there were 6 monofills, accounting for 3% of all active landfills.

## Landfills Reporting

MSW Records indicated that in 2016 there were 195 permitted MSW landfills actively accepting and managing waste (Figure 1); all active facilities submitted reports.

Facility data for the 2016 active landfills are presented in the *Facility Data for MSW Landfills* section of this report. Information from landfill annual reports is also available online through the TCEQ's Central Registry website at <[www.tceq.texas.gov/goto/cr-searchid](http://www.tceq.texas.gov/goto/cr-searchid)>.

To access an online report for a specific landfill:

- Enter an MSW permit number, including any amendment letter (e.g., 1312A) in the *Program ID* field and click on the *Search* button
- On the *Regulated Entity Information* results page, scroll down to the table of *Permits, Registrations, or Other Authorizations* and select the active "Municipal Solid Waste Disposal" ID Number in the table
- In the resulting list of *Related Information*, select "Periodic Reports"
- In the "Select Report" field, select "MSW Annual Report" and click on the *Search* button
- In the "Select Year" field, select the year of interest and click on the *Search* button

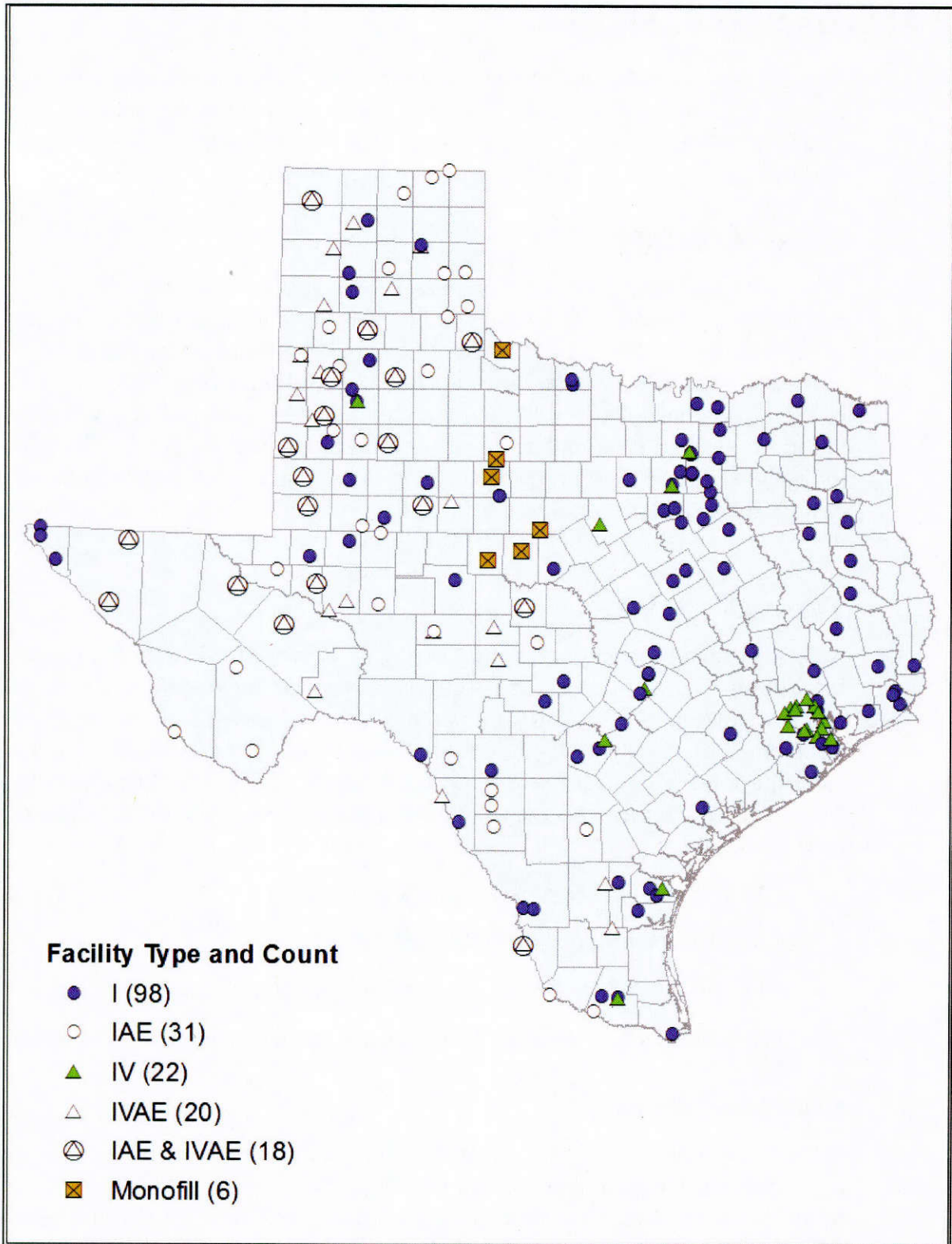


Figure 1. Active Texas MSW Landfills in 2016

## Processing Facilities

This section provides a summary of processing facility types and activity in 2016. Compost facilities do not process waste, as defined for Type V facilities, but are counted as processing facilities for purpose of this annual summary.

### ***Type V facility***

Type V facilities store or process MSW. Processing includes transfer, incineration, shredding, grinding, baling, salvaging, separation, dewatering, or reclamation of MSW. Type V facilities may be authorized by permit. However, certain Type V facilities may qualify for authorization by registration if specific requirements are met. For example, a Type V transfer station that includes a material recovery operation and recovers at least 10% (by weight) of the incoming waste stream for reuse or recycling would qualify for a registration. Type V facilities processed about 7.4 million tons in 2016.

### ***Type IX facility***

A Type IX facility is an energy, material, gas recovery for beneficial use or landfill mining facility located within or adjacent to a closed landfill, an inactive portion of a landfill, or an active landfill. These facilities are authorized by registration. Type IX facilities do not process waste, as defined for Type V facilities, but they are classified as processing facilities by rule. In 2016, Type IX facilities recovering landfill gas for beneficial use estimated approximately:

- 20.5 billion cubic feet (ft<sup>3</sup>) of gas processed;
- 5.3 billion ft<sup>3</sup> of gas distributed off-site;
- 488 million kWh of power generated and sold; and
- 276 million kilowatt hours (KWh) of power generated and used on site.

### ***Compost facility***

A compost facility processes organic materials that are diverted from a waste stream. Owners or operators of compost facilities are required to notify TCEQ or obtain a registration or permit, depending upon the types of materials that will be accepted. Composting operations at MSW landfills may be authorized under the landfill permit.

Annual reports are required for registered and permitted compost facilities. In 2016, there was 560, 077 tons of organic material composted, as reported by 10 permitted MSW landfills and 21 compost facilities (8 permitted and 13 registered).

## Processing Facilities Reporting

MSW processing facilities are differentiated by sub-types in MSW Records (Table 1) by a number followed by letters. For example, “5GG” designates a Type V processing facility for grease trap and grit trap waste. For 2016, MSW Records indicated that there were 202 active permitted or registered MSW processing facilities (175 Type V and 27 Type IX); all active processing facilities submitted annual reports.

**Table 1. Active MSW Processing Facilities in 2016**

| Facility Type                       | Permitted | Registered |
|-------------------------------------|-----------|------------|
| Autoclave (5AC)                     | 2         | 7          |
| Liquid waste processor (5GG)        | 23        | 7          |
| Medical waste processor (5MW)       | 1         | 3          |
| Recycling & Recovery (5RR)          | 1         | 1          |
| Liquid waste transfer station (5TL) | 0         | 4          |
| Transfer station (5TS)              | 32        | 71         |
| Waste incinerator (5WI)             | 2         | 0          |
| Composting (5RC)                    | 8         | 13         |
| Gas recovery (9GR)                  | 2         | 25         |
| <b>Total</b>                        | <b>71</b> | <b>131</b> |

Facility data for the Type V processing facilities and composting facilities active in 2016 are presented in the *Facility Data for MSW Processing Facilities* section of this report.

Facility data for the Type IX facilities recovering landfill gas for beneficial use in 2016 are presented in the *Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use* section of this report.

Information from Type V, compost, and Type IX facilities is also available online through the TCEQ’s Central Registry website at [www.tceq.texas.gov/goto/cr-searchid](http://www.tceq.texas.gov/goto/cr-searchid).

To access an online report for a specific processing facility:

- Enter an MSW processing facility permit, including any amendment letter (e.g., 1312A), or registration number (e.g., 40132) in the *Program ID* field and click on the *Search* button

- On the *ID Search Results List* page, select the “Municipal Solid Waste Processing ID Number” in the table
- In the resulting list of *Related Information*, select “Periodic Reports”
- In the “Select Report” field, select “MSW Annual Report” and click on the *Search* button
- In the “Select Year” field, select the year of interest and click on the *Search* button

## Other Information about Landfills and Processing Facilities

### ***Use of scales***

Operators for approximately 75 % of the MSW landfills and 53% of the MSW processing facilities reported using scales to measure all or some of their accepted waste or feedstock material in 2016. For facilities without scales (as well as many facilities with scales) accepted waste or feedstock material was measured by estimated volume (i.e., cubic yards).

### ***Texas municipal solid waste fee***

Title 5 (Sanitation and Environmental Quality) Section 361.013(a) of the Texas Health and Safety Code requires the TCEQ to charge a fee on all solid waste that is disposed of within the state. Current fee rates for waste received by MSW landfills and processors for disposal are presented in Table 2.

**Table 2. Texas Municipal Solid Waste Fee Rates**

| <b>Unit of Measure</b>   | <b>Landfills</b>      | <b>Processors for Disposal</b><br>(includes incinerators, composting, and shredding facilities, and similar facilities or processes) |
|--------------------------|-----------------------|--|
| Ton                      | \$0.94 per ton        | \$0.47 per ton   |
| Cubic yard (compacted)   | \$0.30 per cubic yard | \$0.15 per cubic yard  |
| Cubic yard (uncompacted) | \$0.19 per cubic yard | \$0.095 per cubic yard   |

### ***MSW facility tipping fees***

MSW landfill and applicable processing facility operators collect the required MSW disposal fee as part of the tipping fee they charge their customers. Tipping fees are based on weight or volume, depending upon the type of waste and method of delivery to the facility.

In 2016, the average statewide tipping fees charged by MSW landfills were:

- \$35.06 per ton, with 139 facilities reporting;
- \$13.42 per compacted cubic yard, with 35 facilities reporting; and
- \$13.54 per uncompacted cubic yard, with 70 facilities reporting.

In 2016, the average statewide tipping fees charged by MSW processing facilities were:

- \$55.77 per ton, with 56 facilities reporting;
- \$0.18 per gallon, with 38 facilities reporting;
- \$0.53 per pound, with 12 facilities reporting;
- \$14.37 per compacted cubic yard; with 16 facilities reporting; and
- \$16.04 per uncompacted cubic yard, with 38 facilities reporting.

### ***Facility ownership and related disposal and capacity information***

Most MSW facilities in Texas are owned by government entities such as cities and counties; the rest are owned by corporations and other types of privately held companies.

#### **Landfills**

In 2016, of the 195 active landfills, 128 (66%) were publicly owned. Publicly owned facilities disposed of 36% of the state's reported waste disposal and accounted for 43% of the state's total remaining capacity. Approximately 52% of the publicly owned landfills were arid-exempt facilities with limited waste acceptance rates.

#### **Processing Facilities**

In 2016, of the 175 active Type V processing and composting facilities, 82 were publicly owned. Of the 27 active Type IX facilities recovering landfill gas for beneficial use, 23 were privately owned.





# Waste Information

## Waste Managed by MSW Facilities

### ***Municipal solid waste***

The Texas definition of MSW in 30 TAC, Chapter 330 (Municipal Solid Waste), Subchapter A (General Information), is “*solid waste resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial solid waste.*”

The Texas definition of MSW is more encompassing than the definition used by the U.S. Environmental Protection Agency (USEPA) and some states. The Texas definition includes municipal wastewater treatment sludges and C&D waste, whereas the USEPA definition does not. Therefore, the Texas per capita disposal rate may be higher than those of other states because of the broader range of materials counted as MSW in Texas.

In Texas, wastes are classified first by their source (the generator of a waste), then the constituents in or properties of the waste. Retailers, repair services, and the public are municipal generators; manufacturers are industrial generators.

### ***Nonhazardous industrial waste***

Industrial solid waste is defined and regulated under 30 TAC, Chapter 335 (Industrial Solid Waste and Municipal Hazardous Waste). Industrial and municipal wastes may be classified as hazardous or nonhazardous. MSW facilities may not accept regulated hazardous waste. However, in certain circumstances, MSW facilities may accept *nonhazardous* industrial solid wastes. Nonhazardous industrial solid wastes are defined by classes.

- **Class 1:** Industrial solid waste that, based on its constituents and properties, may pose a substantial danger to human health or the environment if it is not properly managed. There are special handling requirements for Class 1 nonhazardous industrial wastes at MSW landfills. An example of Class 1 waste could be municipal wastewater treatment plant sludge or industrial sludge containing metals or organics.
- **Class 2:** Industrial solid waste that cannot be described as hazardous, Class 1 non-hazardous, or Class 3. Activated sludge from industrial biological wastewater treatment plants are typically Class 2 wastes.

- **Class 3:** Inert and essentially insoluble industrial solid wastes that do not readily decompose, such as bricks or concrete from an industrial facility.

Most MSW facilities may accept Class 2 and Class 3 nonhazardous industrial solid waste. MSW landfills with dedicated Class 1 cells, which have more protective design requirements than MSW cells, may accept Class 1 nonhazardous industrial waste.

The Texas classification of Class 1 nonhazardous industrial waste is based on the leachable concentrations of constituents of concern found in the waste. Waste classified as hazardous cannot be made nonhazardous by dilution.

## Disposal Information

### ***Waste types***

In 2016, municipal waste accounted for approximately 65% of the total waste disposed at MSW landfills; construction or demolition waste, the second largest waste type, accounted for approximately 20%. The types and estimated amounts of waste disposed in Texas MSW landfills in 2016 are illustrated in Figure 2 and Table 3. Waste types listed in Table 3 are described in the *MSW Waste and Material Type Descriptions* section of this report.

### ***Waste sources***

In 2016, less than 1% of waste disposed in the state's MSW landfills was generated from outside the state. Two landfills accepted waste from Mexico, representing a total of 2,155 tons. Eight landfills accepted waste imported from other states, including Arkansas, Louisiana, New Mexico, and Oklahoma, representing a total of 181,472 tons. There is no requirement for reporting the amount of MSW exported out of Texas.

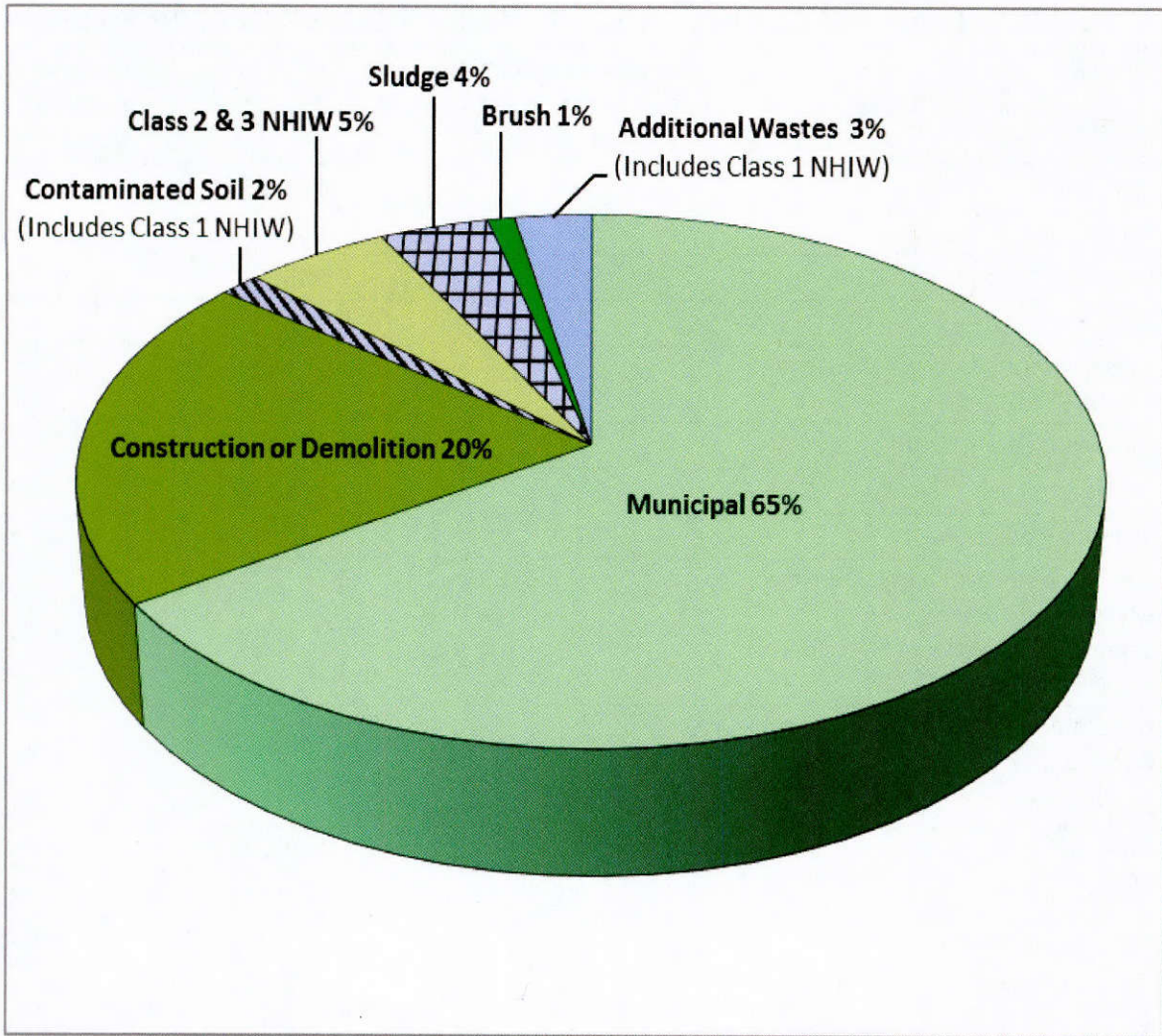


Figure 2. Types and Amounts of Waste Disposed in MSW Landfills in 2016

**Table 3. Types and Amounts of Waste Disposed in MSW Landfills in 2016**

| <b>Waste Type</b>  | <b>Number of Landfills<br/>Accepting Waste<br/>Type</b> | <b>Tons Disposed</b> | <b>Percent of<br/>Total Tons<br/>Disposed</b> |
|--|---|----------------------|---|
| Municipal  | 148   | 22,714,397           | 65.40   |
| Brush  | 65  | 336,230              | 0.97  |
| Construction or Demolition   | 157   | 7,065,530            | 20.34   |
| Litter   | 13  | 6,342                | 0.02  |
| Class 1 Nonhazardous Industrial<br>Waste (NHIW)  | 18  | 521,780              | 1.50  |
| Classes 2 and 3 NHIW   | 63  | 1,796,675            | 5.17  |
| Incinerator ash  | 6   | 9,691                | 0.03  |
| Treated Medical waste  | 17  | 45,091               | 0.13  |
| Municipal Hazardous Waste from<br>Conditionally Exempt Small<br>Quantity Generators (Municipal<br>CESQG) | 2   | 1,202                | 0.00  |
| Regulated Asbestos-Containing<br>Material (RACM)   | 30  | 38,643               | 0.11  |
| Non-RACM   | 43  | 48,106               | 0.14  |
| Dead animals   | 81  | 18,296               | 0.05  |
| Sludge   | 90  | 1,359,833            | 3.92  |
| Grease trap waste  | 12  | 10,068               | 0.03  |
| Grit trap waste  | 16  | 5,705                | 0.02  |
| Septage  | 5   | 94,282               | 0.27  |
| Contaminated soil  | 48  | 497,143              | 1.43  |
| Tires<br>(only tires that have been split,<br>quartered, or shredded may be<br>disposed in a landfill)   | 31  | 47,588               | 0.14  |
| Pesticides   | 0   | 0                    | 0.00  |
| Used oil filter  | 0   | 0                    | 0.00  |
| Other  | 26  | 115,649              | 0.33  |
| <b>Total</b>   | Not Applicable  | <b>34,732,251</b>    | <b>100</b>                                    |

# Landfill Capacity Information

## Per capita disposal rate

In 2016, approximately 34.73 million tons of waste was disposed in Texas MSW landfills. Using the 2016 state population estimate of 27,862,596, the average disposal rate in Texas was 6.83 pounds per person per day, which is slightly above the 2015 rate of 6.67 pounds. During this period, the state's population increased 1.4%. Population data were obtained from the U.S. Census Bureau's *Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2016*, available at [www.census.gov/data/tables/2016/demo/popest/counties-total.html](http://www.census.gov/data/tables/2016/demo/popest/counties-total.html).

As discussed in the *Waste Information* section of this report, the Texas definition of MSW includes C&D waste and municipal wastewater treatment plant sludge. To provide a more complete representation of the state's remaining MSW landfill capacity, the Texas per capita disposal rate calculation includes all MSW wastes and industrial wastes that were disposed in the state's MSW landfills.

If the Texas had used the EPA definition of MSW for 2016, the average disposal rate would have been approximately 4.72 pounds per person per day.

Figure 3 displays a graphic representation of disposal amounts and average per capita disposal rates over time. For more detailed information, please see Table 6. *Historical Disposal and Capacity Data for Texas MSW Landfills*.

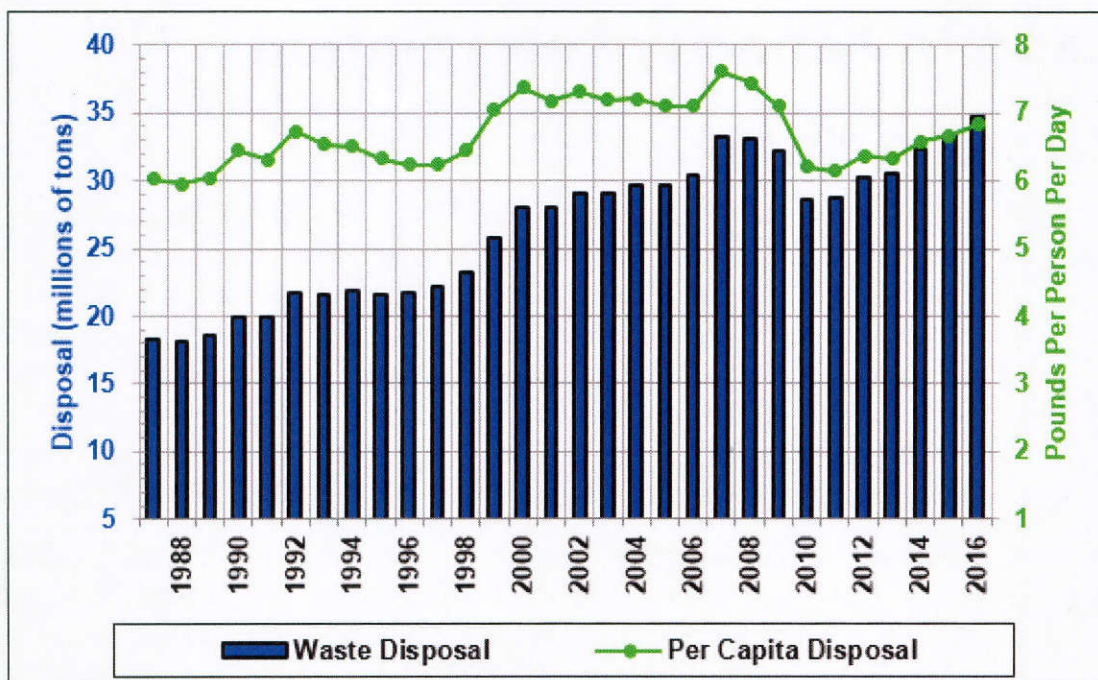


Figure 3. Total Tons and Per Capita Rate for MSW Disposal

## Landfill capacity

The total remaining MSW landfill capacity in the state at the end of 2016 was 2.81 billion cubic yards. Based on reported compaction rates, this volume would hold 1.93 billion tons of waste and serve for 56 years.

The remaining capacity for all active MSW landfills by facility type is summarized in Table 4. The analyses in this summary assume that the 2016 disposal rate of 34.73 million tons will continue each year, that no new landfill expansions or new permits will be issued, and that the 2016 population and disposal amounts will remain constant. Remaining capacity is not applicable to monofills, which are authorized through a renewable five-year permit by rule.

Table 4. Disposal Amounts and Remaining Capacity by Facility Type in 2016

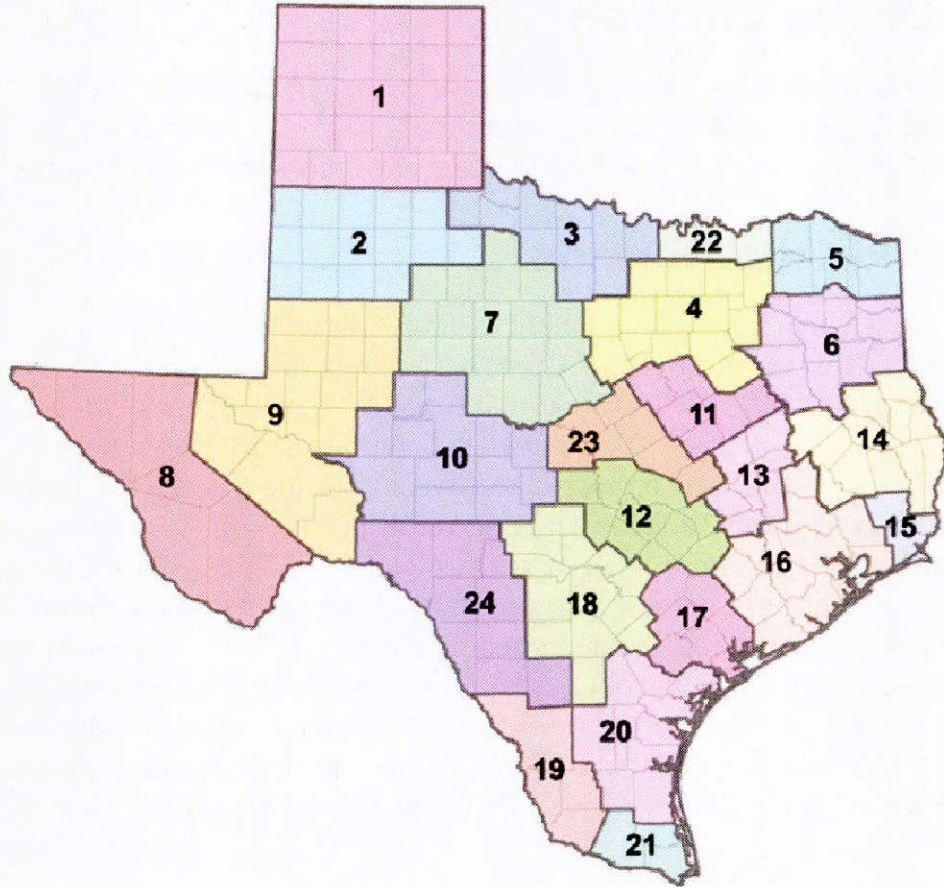
| Facility Type | Number of Landfills | Amount Disposed (tons) | Remaining Capacity (tons) | Remaining Capacity (Years) |
|---------------|---------------------|------------------------|---------------------------|----------------------------|
| I             | 98                  | 30,900,144             | 1,833,911,500             | 59                         |
| IV            | 22                  | 3,478,178              | 78,904,054                | 23                         |
| IAE           | 31                  | 163,290                | 8,527,388                 | 52                         |
| IVAE          | 20                  | 32,063                 | 2,881,146                 | 90                         |
| IAE and IVAE  | 18                  | 155,372                | 8,363,842                 | 54                         |
| Monofill      | 6                   | 3,204                  | 135,900                   | Not Applicable             |
| <b>Totals</b> | <b>195</b>          | <b>34,732,251</b>      | <b>1,932,723,830</b>      | <b>56</b>                  |

## **Growth and attrition**

According to submitted data, statewide capacity increased in 2016. The resulting net capacity increased by approximately 66.9 million tons (roughly 24.1 million cubic yards) or 3.6% from the statewide 2015 capacity.

## **Statewide distribution**

In Texas, there are 24 Regional Planning Commissions, also known as Councils of Governments (COGs) that are responsible under Texas Health and Safety Code, Section 363.0615 for MSW management planning on a regional basis (Figure 4). Although remaining capacity was not evenly distributed, the state appeared to have an adequate reserve of MSW landfill capacity in 2016 (Table 5). The Central Texas COG (CTCOG 23) had the least amount of remaining capacity with 16 years. The most significant increase in the number of remaining years for landfill capacity was for the West Central Texas Council of Governments region (WCTCOG 7) where remaining capacity increased from 155 years to 203 years. The change for the WCTCOG 7 may be a result of the reported decrease in the amount of waste disposed (from 561,349 tons in 2015, to 449,698 tons in 2016) and an apparent increase in compaction efficiency at the Abilene Type I landfill (MSW Permit No. 1469A).



| No. | Abbrev. | COG Name                                   | No. | Abbrev. | COG Name                                      |
|-----|---------|--|-----|---------|---|
| 1   | PRPC    | Panhandle Regional Planning Commission     | 13  | BVCOG   | Brazos Valley Council of Governments          |
| 2   | SPAG    | South Plains Association of Governments    | 14  | DETCOG  | Deep East Texas Council of Governments        |
| 3   | NRPC    | Nortex Regional Planning Commission        | 15  | SETRPC  | South East Texas Regional Planning Commission |
| 4   | NCTCOG  | North Central Texas Council of Governments | 16  | H-GAC   | Houston-Galveston Area Council                |
| 5   | ATCOG   | Ark-Tex Council of Governments             | 17  | GCRPC   | Golden Crescent Regional Planning Commission  |
| 6   | ETCOG   | East Texas Council of Governments          | 18  | AACOG   | Alamo Area Council of Governments             |
| 7   | WCTCOG  | West Central Texas Council of Governments  | 19  | STDC    | South Texas Development Council               |
| 8   | RGCOG   | Rio Grande Council of Governments          | 20  | CBCOG   | Coastal Bend Council of Governments           |
| 9   | PBRPC   | Permian Basin Regional Planning Commission | 21  | LRGVDC  | Lower Rio Grande Valley Development Council   |
| 10  | CVCOG   | Concho Valley Council of Governments       | 22  | TCOG    | Texoma Council of Governments                 |
| 11  | HOTCOG  | Heart of Texas Council of Governments      | 23  | CTCOG   | Central Texas Council of Governments          |
| 12  | CAPCOG  | Capital Area Council of Governments        | 24  | MRGDC   | Middle Rio Grande Development Council         |

Figure 4. Texas Councils of Governments



Table 5. Analysis of MSW Landfill Disposal by Texas COGs for 2016

| COG           | Landfill Count | Percent of Total Landfill Count | Tons Disposed     | Percent of Total Tons Disposed in State | Population in COG Region | Pounds Disposed Per Person Per Day | Remaining Capacity in COG Region, in Tons | Percent of Remaining Capacity in State | Remaining Capacity in COG Region, in Years |
|---------------|----------------|---------------------------------|-------------------|---|--------------------------|------------------------------------|---|--|--|
| 1 PRPC        | 21             | 10.77                           | 581,052           | 1.67                                    | 437,317                  | 7.28                               | 42,561,828                                | 2.20                                   | 73   |
| 2 SPAG        | 20             | 10.26                           | 542,891           | 1.56                                    | 432,995                  | 6.87                               | 79,292,829                                | 4.10                                   | 146  |
| 3 NRPC        | 3              | 1.54                            | 302,381           | 0.87                                    | 220,124                  | 7.53                               | 52,926,164                                | 2.74                                   | 175  |
| 4 NCTCOG      | 21             | 10.77                           | 10,590,049        | 30.49                                   | 7,351,558                | 7.89                               | 382,599,998                               | 19.80                                  | 36   |
| 5 ATCOG       | 3              | 1.54                            | 410,527           | 1.18                                    | 283,640                  | 7.93                               | 55,552,367                                | 2.87                                   | 135  |
| 6 ETCOG       | 4              | 2.05                            | 652,411           | 1.88                                    | 854,975                  | 4.18                               | 118,735,034                               | 6.14                                   | 182  |
| 7 WCTCOG      | 12             | 6.15                            | 449,698           | 1.29                                    | 330,597                  | 7.45                               | 91,421,795                                | 4.73                                   | 203  |
| 8 RGCOG       | 8              | 4.10                            | 460,279           | 1.33                                    | 862,527                  | 2.92                               | 55,134,583                                | 2.85                                   | 120  |
| 9 PBRPC       | 15             | 7.69                            | 684,484           | 1.97                                    | 475,566                  | 7.89                               | 39,581,918                                | 2.05                                   | 58   |
| 10 CVCOG      | 8              | 4.10                            | 204,151           | 0.59                                    | 161,890                  | 6.91                               | 5,709,142                                 | 0.30                                   | 28   |
| 11 HOTCOG     | 4              | 2.05                            | 769,531           | 2.22                                    | 361,473                  | 11.67                              | 49,880,511                                | 2.58                                   | 65   |
| 12 CAPCOG     | 5              | 2.56                            | 2,376,482         | 6.84                                    | 2,176,606                | 5.98                               | 73,486,442                                | 3.80                                   | 31   |
| 13 BVCOG      | 1              | 0.51                            | 373,944           | 1.08                                    | 348,941                  | 5.87                               | 27,303,793                                | 1.41                                   | 73   |
| 14 DETCOG     | 4              | 2.05                            | 525,122           | 1.51                                    | 381,589                  | 7.54                               | 35,723,873                                | 1.85                                   | 68   |
| 15 SETRPC     | 4              | 2.05                            | 690,264           | 1.99                                    | 395,965                  | 9.55                               | 28,064,791                                | 1.45                                   | 41   |
| 16 HGAC       | 26             | 13.33                           | 8,971,386         | 25.83                                   | 6,943,895                | 7.08                               | 338,926,565                               | 17.54                                  | 38   |
| 17 GCRPC      | 1              | 0.51                            | 148,414           | 0.43                                    | 198,368                  | 4.10                               | 5,024,080                                 | 0.26                                   | 34   |
| 18 AACOG      | 7              | 3.59                            | 2,875,304         | 8.28                                    | 2,542,648                | 6.20                               | 167,819,342                               | 8.68                                   | 58   |
| 19 STDC       | 4              | 2.05                            | 421,845           | 1.21                                    | 354,810                  | 6.51                               | 51,702,332                                | 2.68                                   | 123  |
| 20 CBCOG      | 7              | 3.59                            | 715,902           | 2.06                                    | 598,738                  | 6.55                               | 103,278,180                               | 5.34                                   | 144  |
| 21 LRGVDC     | 5              | 2.56                            | 1,220,605         | 3.51                                    | 1,293,788                | 5.17                               | 97,650,682                                | 5.05                                   | 80   |
| 22 TCOG       | 2              | 1.03                            | 201,100           | 0.58                                    | 201,532                  | 5.47                               | 15,748,064                                | 0.81                                   | 78   |
| 23 CTCOG      | 2              | 1.03                            | 418,047           | 1.20                                    | 479,883                  | 4.77                               | 6,548,773                                 | 0.34                                   | 16   |
| 24 MRGDC      | 8              | 4.10                            | 146,382           | 0.42                                    | 173,171                  | 4.63                               | 8,050,744                                 | 0.42                                   | 55   |
| <b>Totals</b> | <b>195</b>     | <b>100</b>                      | <b>34,732,251</b> | <b>100</b>                              | <b>27,862,596</b>        | <b>6.83 (average)</b>              | <b>1,932,723,830</b>                      | <b>100</b>                             | <b>56 (average)</b>                        |

## Historical Capacity Data for Texas MSW Landfills

Table 6. Historical Disposal and Capacity Data for Texas MSW Landfills

| Year        | Waste Disposal (Tons) | State Population  | Per Capita Disposal Rate (Pounds per Person per Day) | Number of Active Landfills | Remaining Capacity (Cubic Yards) | Remaining Capacity (Tons) | Remaining Capacity (Years) |
|-------------|-----------------------|-------------------|--|----------------------------|----------------------------------|---------------------------|----------------------------|
| 1988        | 18,114,295            | 16,668,639        | 5.95   | 750                        | 1,162,374,628                    | 377,771,754               | 21                         |
| 1989        | 18,531,001            | 16,806,521        | 6.04   | 616                        | 1,111,902,033                    | 361,368,161               | 20                         |
| 1990        | 19,969,615            | 16,986,510        | 6.44   | 493                        | 1,124,524,795                    | 393,583,678               | 20                         |
| 1991        | 19,973,622            | 17,349,000        | 6.31   | 405                        | 1,183,699,041                    | 414,294,664               | 21                         |
| 1992        | 21,675,661            | 17,655,650        | 6.73   | 345                        | 1,193,233,770                    | 440,730,048               | 20                         |
| 1993        | 21,517,063            | 18,031,484        | 6.54   | 289                        | 1,205,635,627                    | 456,161,796               | 21                         |
| 1994        | 21,808,274            | 18,378,185        | 6.50   | 199                        | 1,269,565,453                    | 483,752,986               | 22                         |
| 1995        | 21,639,678            | 18,723,991        | 6.33   | 191                        | 1,071,520,039                    | 523,633,365               | 24                         |
| 1996        | 21,738,137            | 19,128,261        | 6.23   | 186                        | 1,023,799,597                    | 554,095,949               | 26                         |
| 1997        | 22,094,777            | 19,439,337        | 6.23   | 181                        | 1,169,628,669                    | 659,694,441               | 30                         |
| 1998        | 23,259,425            | 19,759,614        | 6.45   | 184                        | 1,300,609,247                    | 716,302,147               | 31                         |
| 1999        | 25,791,066            | 20,044,141        | 7.05   | 179                        | 1,557,349,331                    | 862,778,821               | 33                         |
| 2000        | 28,034,517            | 20,851,820        | 7.37   | 183                        | 1,633,321,824                    | 904,891,939               | 32                         |
| 2001        | 27,938,751            | 21,235,018        | 7.18   | 186                        | 1,710,713,869                    | 939,383,633               | 34                         |
| 2002        | 29,061,966            | 21,779,893        | 7.31   | 190                        | 1,691,970,227                    | 971,314,962               | 33                         |
| 2003        | 29,073,315            | 22,118,509        | 7.20   | 184                        | 1,506,807,849                    | 963,972,887               | 33                         |
| 2004        | 29,581,785            | 22,490,022        | 7.21   | 189                        | 1,826,587,075                    | 1,134,462,509             | 37                         |
| 2005        | 29,671,151            | 22,859,968        | 7.11   | 186                        | 1,870,868,394                    | 1,217,845,562             | 41                         |
| 2006        | 30,453,702            | 23,507,783        | 7.10   | 187                        | 2,110,807,960                    | 1,366,311,822             | 45                         |
| 2007        | 33,183,488            | 23,904,380        | 7.61   | 188                        | 2,158,501,232                    | 1,403,592,411             | 42                         |
| 2008        | 33,078,196            | 24,326,974        | 7.45   | 191                        | 2,167,272,920                    | 1,439,621,096             | 44                         |
| 2009        | 32,264,262            | 24,782,302        | 7.13   | 190                        | 2,351,154,567                    | 1,567,806,257             | 49                         |
| 2010        | 28,637,988            | 25,213,445        | 6.22   | 190                        | 2,483,194,375                    | 1,722,333,910             | 60                         |
| 2011        | 28,817,066            | 25,674,681        | 6.15   | 193                        | 2,636,321,089                    | 1,830,882,782             | 64                         |
| 2012        | 30,309,069            | 26,059,203        | 6.37   | 195                        | 2,632,196,651                    | 1,739,952,891             | 57                         |
| 2013        | 30,569,741            | 26,448,193        | 6.33   | 197                        | 2,786,237,795                    | 1,880,790,197             | 62                         |
| 2014        | 32,371,574            | 26,956,958        | 6.58   | 198                        | 2,867,269,225                    | 1,939,340,177             | 60                         |
| 2015        | 33,449,560            | 27,469,114        | 6.67   | 199                        | 2,789,966,234                    | 1,865,784,374             | 56                         |
| <b>2016</b> | <b>34,732,251</b>     | <b>27,862,596</b> | <b>6.83</b>  | <b>195</b>                 | <b>2,814,101,889</b>             | <b>1,932,723,830</b>      | <b>56</b>                  |

# Trends

## Landfill closures

In 1987, there were 763 authorized MSW landfills in Texas accepting waste and by 1994, there were only 199 (Figure 5). The federal Resource Conservation and Recovery Act (RCRA) Subtitle D standards established in October 1991 required MSW landfills to upgrade designs, operating practices, and closure specifications; restricted the location of MSW landfills; and required MSW landfills to install liners and implement groundwater monitoring. The new federal requirements were a contributing factor in the closure of landfills across the state in the early 1990s.

## Reserve capacity

Reserve capacity (expressed in terms of years) is the remaining capacity (expressed in terms of tons) divided by the waste disposal rate (tons disposed) for the current reporting year. From 1986 to the mid-1990s, the state's reserve capacity for disposal in MSW landfills was less than 22 years. Beginning in 2004, the capacity steadily increased with a maximum of 64 years reached in 2011. The current reserve capacity for disposal is approximately 56 years (Table 6 and Figure 5). Expansion in the available volume of permitted disposal capacity; improvements in compaction and diversion; and the state's economic activity are probable contributing factors affecting the reserve capacity trend. For example, the average compaction rate in 1986 was approximately 650 pounds of waste per cubic yard; in 2000 the average rate was approximately 1,000 pounds per cubic yard; and by 2016 the calculated average compaction rate was 1,117 pounds per cubic yard.

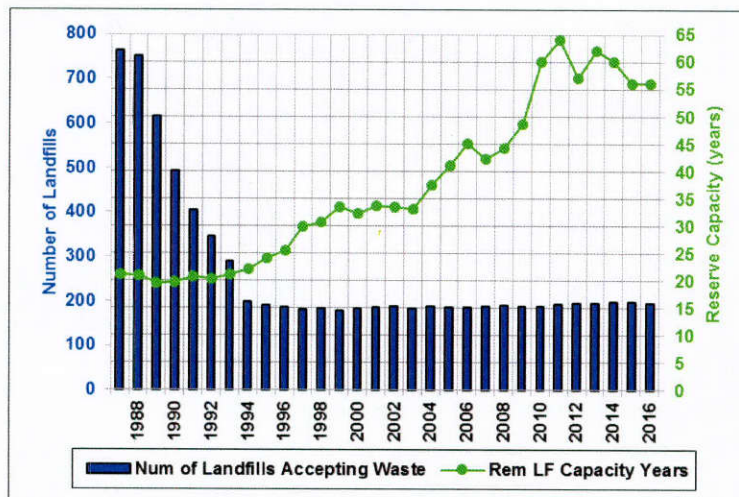


Figure 5. Number of MSW Landfills and Reserve Capacity

## Landfill size

In addition to improvements in operations at MSW landfills, the size of landfills has continued to increase. In 1986, the statewide average landfill size was 50 acres with an average height of 13 feet. In 2016, the statewide average landfill size was 246 acres with an average height of 84 feet. Landfill height was calculated as the difference between the reported site permanent benchmark elevation and final cover elevation.

The breakdown of the permitted heights for MSW landfills in 2016 is presented in Table 7. Two landfills had a permitted height over 300 feet; Abilene Regional Landfill (Permit No. 1469A; WCTCOG 7) and Greenwood Farms (Permit No. 1972A; ETCOG 6).

**Table 7. Permitted Heights for MSW Landfills in 2016 (excludes monofills)**

| Permitted Height | Number of Landfills | Percent of Landfills |
|------------------|---------------------|----------------------|
| <100 ft          | 118                 | 62                   |
| 100 ft - 200 ft  | 51                  | 27                   |
| 200 ft - 300 ft  | 18                  | 10                   |
| >300 ft          | 2                   | 1                    |

## Counties served

The 195 active MSW landfills in the state reported the number of counties they served in 2016 (Table 8). Service to more than one county was provided by 127 landfills (65%). The number of active landfills by county is shown in Table 9. Counties with a change in the number of landfills and monofills are indicated. Counties with monofills are also indicated.

**Table 8. Number of Texas Counties Served by MSW Landfills in 2016**

| Number of Counties Served | Number of Landfills |
|---------------------------|---------------------|
| 1                         | 68                  |
| 2 - 5                     | 58                  |
| 6 - 10                    | 49                  |
| 11 - 15                   | 7                   |
| 16 - 20                   | 9                   |
| >20                       | 4                   |

Table 9. Number of Active MSW Landfills by County in 2016

| County    | Number of Landfills | County        | Number of Landfills | County     | Number of Landfills | County    | Number of Landfills | County     | Number of Landfills |
|-----------|---------------------|---------------|---------------------|------------|---------------------|-----------|---------------------|------------|---------------------|
| Anderson  | 0                   | Caldwell      | 0                   | Crockett   | 0                   | Franklin  | 0                   | Hays       | 0                   |
| Andrews   | 1                   | Calhoun       | 0                   | Crosby     | 0                   | Freestone | 0                   | Hemphill   | 0                   |
| Angelina  | 1                   | Callahan      | 1 (monofill)        | Culberson  | 0                   | Frio      | 0                   | Henderson  | 0                   |
| Aransas   | 0                   | Cameron       | 1                   | Dallam     | 1                   | Gaines    | 1                   | Hidalgo    | 4                   |
| Archer    | 0                   | Camp          | 0                   | Dallas     | 4                   | Galveston | 3                   | Hill       | 1                   |
| Armstrong | 1                   | Carson        | 1                   | Dawson     | 1                   | Garza     | 1                   | Hockley    | 2                   |
| Atascosa  | 0                   | Cass          | 0                   | Deaf Smith | 1                   | Gillespie | 1                   | Hood       | 0                   |
| Austin    | 0                   | Castro        | 1                   | Delta      | 0                   | Glasscock | 1                   | Hopkins    | 0                   |
| Bailey    | 2                   | Chambers      | 2                   | Denton     | 4                   | Goliad    | 0                   | Houston    | 0                   |
| Bandera   | 0                   | Cherokee      | 1                   | DeWitt     | 0                   | Gonzales  | 0                   | Howard     | 1                   |
| Bastrop   | 0                   | Childress     | 1                   | Dickens    | 0                   | Gray      | 3                   | Hudspeth   | 2                   |
| Baylor    | 0                   | Clay          | 0                   | Dimmit     | 1                   | Grayson   | 2                   | Hunt       | 1                   |
| Bee       | 0                   | Cochran       | 1                   | Donley     | 0                   | Gregg     | 1                   | Hutchinson | 0                   |
| Bell      | 1                   | Coke          | 0                   | Duval      | 1                   | Grimes    | 1                   | Irion      | 0 (decrease)        |
| Bexar     | 2                   | Coleman       | 1 (monofill)        | Eastland   | 0                   | Guadalupe | 1                   | Jack       | 0                   |
| Blanco    | 0                   | Collin        | 1                   | Ector      | 1                   | Hale      | 1                   | Jackson    | 0                   |
| Borden    | 0                   | Collingsworth | 1                   | Edwards    | 0                   | Hall      | 1                   | Jasper     | 0                   |
| Bosque    | 0                   | Colorado      | 1                   | El Paso    | 3                   | Hamilton  | 0                   | Jeff Davis | 0                   |
| Bowie     | 1                   | Comal         | 1                   | Ellis      | 3                   | Hansford  | 1                   | Jefferson  | 3                   |
| Brazoria  | 2                   | Comanche      | 0                   | Erath      | 1                   | Hardeman  | 1 (monofill)        | Jim Hogg   | 0                   |
| Brazos    | 0                   | Concho        | 0                   | Falls      | 0                   | Hardin    | 1                   | Jim Wells  | 1                   |
| Brewster  | 2                   | Cooke         | 0                   | Fannin     | 0                   | Harris    | 14                  | Johnson    | 2                   |
| Briscoe   | 0                   | Coryell       | 1                   | Fayette    | 0                   | Harrison  | 0                   | Jones      | 3 (monofill)        |
| Brooks    | 1                   | Cottle        | 0 (decrease)        | Fisher     | 0                   | Hartley   | 0                   | Karnes     | 0                   |
| Brown     | 1                   | Crane         | 1                   | Floyd      | 1                   | Haskell   | 2 (monofill)        | Kaufman    | 0                   |
| Burleson  | 0                   |               |                     | Foard      | 0                   |           |                     |            |                     |
| Burnet    | 0                   |               |                     | Fort Bend  | 3                   |           |                     |            |                     |

Trends

| County    | Number of Landfills |
|-----------|---------------------|
| Kendall   | 0                   |
| Kenedy    | 0                   |
| Kent      | 0                   |
| Kerr      | 1                   |
| Kimble    | 1                   |
| King      | 0                   |
| Kinney    | 1                   |
| Kleberg   | 1                   |
| Knox      | 0                   |
| La Salle  | 0                   |
| Lamar     | 1                   |
| Lamb      | 4                   |
| Lampasas  | 0                   |
| Lavaca    | 0                   |
| Lee       | 0                   |
| Leon      | 0                   |
| Liberty   | 0                   |
| Limestone | 1                   |
| Lipscomb  | 1                   |
| Live Oak  | 0                   |
| Llano     | 0                   |
| Loving    | 0                   |
| Lubbock   | 3                   |
| Lynn      | 1                   |
| Madison   | 0                   |

| County      | Number of Landfills |
|-------------|---------------------|
| Marion      | 0                   |
| Martin      | 1                   |
| Mason       | 1                   |
| Matagorda   | 0                   |
| Maverick    | 2                   |
| McCulloch   | 1                   |
| McLennan    | 2                   |
| McMullen    | 1                   |
| Medina      | 0                   |
| Menard      | 1                   |
| Midland     | 1                   |
| Milam       | 0                   |
| Mills       | 0                   |
| Mitchell    | 1                   |
| Montague    | 0                   |
| Montgomery  | 1                   |
| Moore       | 2                   |
| Morris      | 0                   |
| Motley      | 1                   |
| Nacogdoches | 1                   |
| Navarro     | 1                   |
| Newton      | 1                   |
| Nolan       | 1                   |
| Nueces      | 3                   |
| Ochiltree   | 1                   |

| County        | Number of Landfills |
|---------------|---------------------|
| Oldham        | 1                   |
| Orange        | 0                   |
| Palo Pinto    | 0                   |
| Panola        | 0                   |
| Parker        | 1                   |
| Parmer        | 0                   |
| Pecos         | 1                   |
| Polk          | 1                   |
| Potter        | 1                   |
| Presidio      | 1                   |
| Rains         | 0                   |
| Randall       | 1                   |
| Reagan        | 1                   |
| Real          | 0                   |
| Red River     | 0                   |
| Reeves        | 1                   |
| Refugio       | 0                   |
| Roberts       | 0                   |
| Robertson     | 0                   |
| Rockwall      | 0                   |
| Runnels       | 1<br>(monofill)     |
| Rusk          | 1                   |
| Sabine        | 0                   |
| San Augustine | 0                   |
| San Jacinto   | 0                   |

| County       | Number of Landfills |
|--------------|---------------------|
| San Patricio | 0                   |
| San Saba     | 0                   |
| Schleicher   | 2                   |
| Scurry       | 1                   |
| Shackelford  | 0                   |
| Shelby       | 0                   |
| Sherman      | 0                   |
| Smith        | 1                   |
| Somervell    | 0                   |
| Starr        | 1                   |
| Stephens     | 0<br>(decrease)     |
| Sterling     | 0                   |
| Stonewall    | 0                   |
| Sutton       | 0                   |
| Swisher      | 1                   |
| Tarrant      | 3                   |
| Taylor       | 0                   |
| Terrell      | 1                   |
| Terry        | 2                   |
| Throckmorton | 0                   |
| Titus        | 1                   |
| Tom Green    | 1                   |
| Travis       | 4                   |
| Trinity      | 0                   |
| Tyler        | 0                   |

| County     | Number of Landfills |
|------------|---------------------|
| Upshur     | 0                   |
| Upton      | 2                   |
| Uvalde     | 1<br>(decrease)     |
| Val Verde  | 1                   |
| Van Zandt  | 0                   |
| Victoria   | 1                   |
| Walker     | 0                   |
| Waller     | 0                   |
| Ward       | 1                   |
| Washington | 0                   |
| Webb       | 2                   |
| Wharton    | 0                   |
| Wheeler    | 1                   |
| Wichita    | 2                   |
| Wilbarger  | 0                   |
| Willacy    | 0                   |
| Williamson | 1                   |
| Wilson     | 0                   |
| Winkler    | 0                   |
| Wise       | 0                   |
| Wood       | 0                   |
| Yoakum     | 1                   |
| Young      | 0                   |
| Zapata     | 1                   |
| Zavala     | 2                   |

# Materials Diverted from Disposal at MSW Landfills

## Overview

Public and private programs for reducing, reusing, and recycling assist in preserving disposal capacity in MSW landfills. Throughout the state, paper, glass, aluminum cans, plastic, scrap metal, wood, electronics, scrap tires, organic materials and numerous other materials are diverted from being disposed of at landfills every day. Information about recycling initiatives for individuals, businesses, and local governments can be found on TCEQ's website at [www.tceq.texas.gov/p2/recycle/recycling.html](http://www.tceq.texas.gov/p2/recycle/recycling.html). Information about how Texans can get involved in protecting the state's resources, including ways to reduce the amount of waste they generate, can be found on the *Take Care of Texas* website at [www.takecareoftexas.org](http://www.takecareoftexas.org).

In 2015, the Texas Legislature directed TCEQ to conduct a study on the current and potential economic impacts of recycling. According to the study, approximately 9.2 million tons of municipal solid waste designated material were recycled in Texas in 2015 (the reporting period for the study). The overall impact of recycling MSW on the Texas economy exceeded \$3.3 billion. The results of the study were published in *The Study on the Economic Impacts of Recycling*, which can be found at [www.tceq.texas.gov/p2/recycle/study-on-the-economic-impacts-of-recycling](http://www.tceq.texas.gov/p2/recycle/study-on-the-economic-impacts-of-recycling).

## Electronics

Television (TV) recyclers are required to report the total weight or volume of covered television equipment received, recycled, and disposed of in the preceding calendar year (CY) on an annual basis. In CY 2016 (January 1, 2016, through December 31, 2016), approximately 18.7 million pounds were received, 17.1 million pounds were recycled, and zero (0.00) pounds were disposed of, as reported by 10 active TV recyclers.

TV and computer equipment manufacturers are also required to report the amount of equipment collected, recycled, and reused. Information about the TV and computer recycling programs, including amounts reported, can be found on the TCEQ's website at [TexasRecyclesTVs.org](http://TexasRecyclesTVs.org) and [TexasRecyclesComputers.org](http://TexasRecyclesComputers.org), respectively.

## Scrap Tires

Scrap tires can be a valuable commodity when properly managed and used to produce various products such as crumb rubber, mulch, and thermal insulators; utilized for civil engineering projects; or processed as a fuel source. In Texas, owners or operators of facilities that transport or process used and scrap tires are required to submit an annual report for the preceding calendar year (CY). In CY 2016, approximately 34.4 million used and scrap tires were reported as managed by transporters, storage sites, and scrap tire processing facilities.

Information about the scrap tire management program, including the CY 2016 annual report summary, can be found on the TCEQ's website at [www.tceq.texas.gov/tires/tires-reporting](http://www.tceq.texas.gov/tires/tires-reporting).

## Other Diverted Materials

Some waste accepted at permitted and registered MSW facilities is diverted from the solid waste stream as recyclable materials. In 2016, over 2.2 million tons of materials were reported as diverted from MSW facilities for recycling or reuse: 1,200,034 tons diverted at landfills, as reported by 103 landfills; and 1,018,693 tons diverted at processing facilities, as reported by 75 facilities. Transfer stations represented most of the processing facilities diverting recyclable materials.

The various material streams and estimated amounts reported as diverted by MSW facilities in 2016 are presented in Table 10. The yard trimmings or brush and the paper or cardboard materials categories represented the largest quantities of materials diverted. The category of "Unclassified Materials" in Table 10 consisted mainly of residential comingled recyclables, but also included items such as batteries, food waste, and miscellaneous building materials. It is noted that data in the table represent only the amount of recyclable material leaving an MSW disposal or processing facility and may or may not be included in the numbers reported by recycling facilities, such as computer recyclers, TV recyclers, and scrap tire processors. Descriptions for several of the material types listed in Table 10 are provided in the *MSW Waste and Material Type Descriptions* section of this report.



Materials Diverted from Disposal at MSW Landfills

**Table 10. Types and Amounts of Diverted Materials in 2016**

| <b>Material Type</b>                | <b>Tons Diverted</b> | <b>% of Total Tons Diverted</b> |
|-------------------------------------|----------------------|---------------------------------|
| Yard Trimmings or Brush             | 811,336              | 36.57                           |
| Metal                               | 34,040               | 1.53                            |
| Glass                               | 37,748               | 1.70                            |
| Plastics                            | 23,209               | 1.05                            |
| Construction or Demolition Material | 243,733              | 10.99                           |
| Paper or Cardboard                  | 801,095              | 36.11                           |
| Electronic Equipment                | 469                  | 0.02                            |
| White Goods                         | 1,361                | 0.06                            |
| Tires                               | 4,874                | 0.22                            |
| Automotive                          | 6                    | 0.01                            |
| Shingles                            | 522                  | 0.02                            |
| Used Oil                            | 496                  | 0.02                            |
| Unclassified Materials              | 259,838              | 11.71                           |
| <b>Total</b>                        | <b>2,218,727</b>     | <b>100</b>                      |



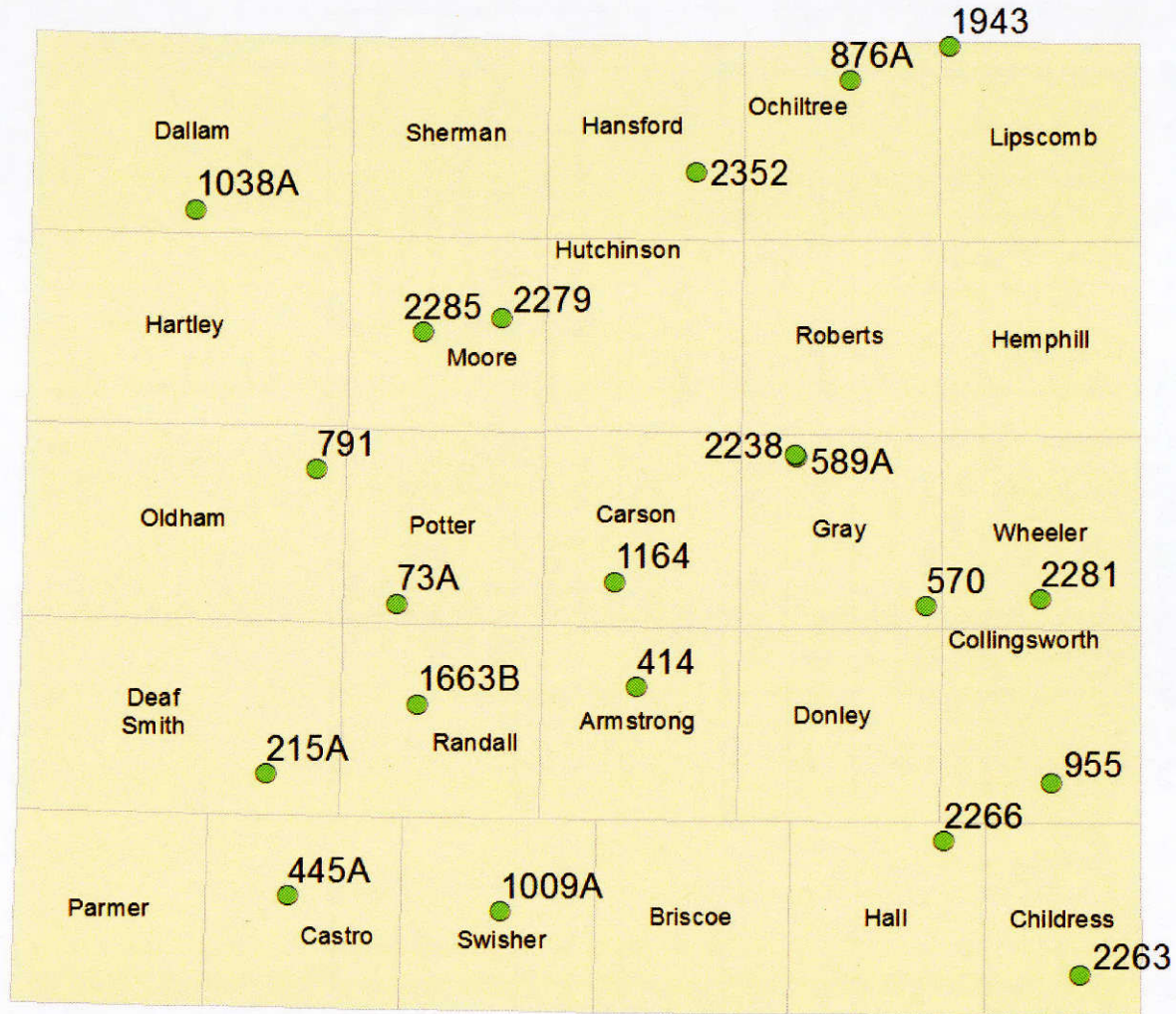
# Facility Data for MSW Landfills

The maps and tables included in this section represent the active MSW landfill data reported for 2016. The maps and tables are organized by COG region and county. All values were rounded to the nearest whole number.

## Key for Landfill Data Tables

| Column Heading | Description   |
|----------------|---|
| Type           | Facility types are identified by Arabic numbers with applicable abbreviations that are used in the TCEQ's database (e.g., 1AE). AE is abbreviation for arid exempt.   |
| 2016 Tons      | Total tons landfilled in fiscal year 2016   |
| Rem Yds        | Remaining landfill capacity in cubic yards  |
| Rate           | Reported compaction rate at the landfill in pounds per cubic yards  |
| Rem Tons       | Remaining landfill capacity in equivalent tons (based on reported landfill compaction rate)   |
| Rem Yrs        | Remaining landfill capacity in years (data provided in a facility's annual report that is an estimate based on the landfill's permitted volume for waste capacity and facility operations). This measure is not applicable to monofills, which are authorized through a renewable five-year permit by rule. |

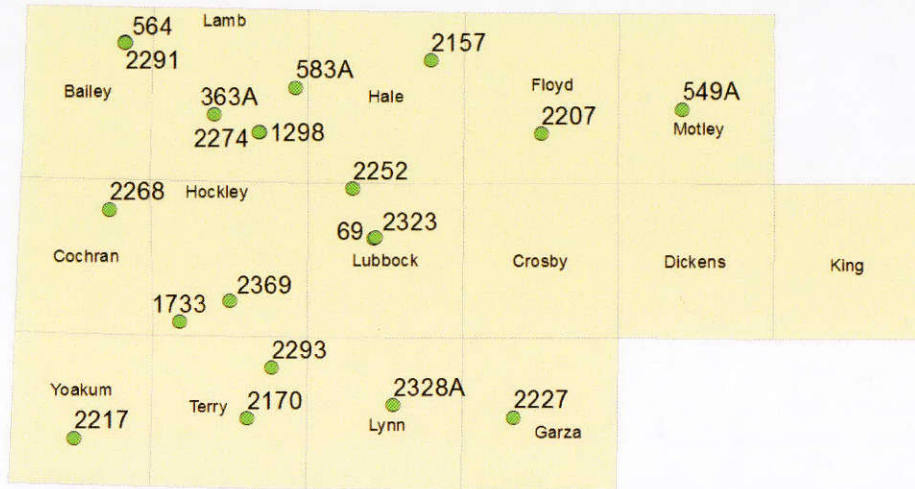
**COG 1: Panhandle Regional Planning Commission—Landfill Locations**



**COG 1: Panhandle Regional Planning Commission—List of Landfills**

| <b>COG</b> | <b>Permit</b> | <b>Site Name</b>                 | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> | <b>Rem Yds</b> | <b>Rate</b> | <b>Rem Tons</b> | <b>Rem Yrs</b> |
|------------|---------------|----------------------------------|---------------|-------------|------------------|----------------|-------------|-----------------|----------------|
| 1          | 414           | Claude Armstrong County Landfill | Armstrong     | 4AE         | 2,148            | 214,829        | 500         | 53,707          | 25             |
| 1          | 1164          | City of Panhandle Landfill       | Carson        | 1AE         | 2,589            | 702,066        | 750         | 263,275         | 102            |
| 1          | 445A          | City of Dimmitt Landfill         | Castro        | 1AE         | 5,977            | 1,150,452      | 750         | 431,420         | 72             |
| 1          | 2263          | City of Childress Landfill       | Childress     | 1AE&4AE     | 3,278            | 2,361,732      | 800         | 944,693         | 120            |
| 1          | 955           | City of Wellington Landfill      | Collingsworth | 1AE         | 3,401            | 475,721        | 800         | 190,288         | 55             |
| 1          | 1038A         | City of Dalhart Landfill         | Dallam        | 1AE&4AE     | 13,006           | 1,225,653      | 785         | 481,069         | 37             |
| 1          | 215A          | City of Hereford Landfill        | Deaf Smith    | 4AE         | 3,834            | 273,175        | 850         | 116,099         | 23             |
| 1          | 570           | City of McLean Landfill          | Gray          | 1AE         | 849              | 543,820        | 800         | 217,528         | 11             |
| 1          | 589A          | City of Pampa Landfill           | Gray          | 4AE         | 1,515            | 446,616        | 1000        | 223,308         | 147            |
| 1          | 2238          | City of Pampa Landfill           | Gray          | 1           | 56,028           | 8,590,273      | 1320        | 5,669,580       | 101            |
| 1          | 2266          | City of Memphis Landfill         | Hall          | 1AE         | 7,378            | 930,234        | 800         | 372,094         | 50             |
| 1          | 2352          | City of Spearman Landfill        | Hansford      | 1AE         | 5,056            | 918,658        | 850         | 390,430         | 2              |
| 1          | 1943          | City of Booker Landfill          | Lipscomb      | 1AE         | 1,715            | 435,650        | 850         | 185,151         | 53             |
| 1          | 2279          | City of Dumas Landfill           | Moore         | 1           | 15,920           | 8,155,320      | 1000        | 4,077,660       | 114            |
| 1          | 2285          | City of Dumas Landfill           | Moore         | 4AE         | 4,620            | 241,670        | 800         | 96,668          | 3              |
| 1          | 876A          | Perryton Landfill                | Ochiltree     | 1AE         | 6,850            | 1,330,364      | 890         | 592,012         | 87             |
| 1          | 791           | Cal Farleys Boys Ranch Landfill  | Oldham        | 4AE         | 500              | 124,500        | 400         | 24,900          | 45             |
| 1          | 73A           | City of Amarillo Landfill        | Potter        | 1           | 234,989          | 64,761,764     | 800         | 25,904,706      | 110            |
| 1          | 1663B         | Southwest Landfill TX            | Randall       | 1           | 200,475          | 2,631,847      | 1444        | 1,900,194       | 9              |
| 1          | 1009A         | City of Tulia Landfill           | Swisher       | 1AE&4AE     | 6,665            | 746,371        | 850         | 317,208         | 48             |
| 1          | 2281          | City of Shamrock Landfill        | Wheeler       | 1AE         | 4,259            | 274,595        | 800         | 109,838         | 26             |

## COG 2: South Plains Association of Governments—Landfill Locations



## COG 2: South Plains Association of Governments—List of Landfills

| COG | Permit | Site Name                             | County  | Type     | 2016 Tons | Rem Yds     | Rate | Rem Tons   | Rem Yrs |
|-----|--------|---------------------------------------|---------|----------|-----------|-------------|------|------------|---------|
| 2   | 564    | City of Muleshoe Landfill             | Bailey  | 4AE      | 2,502     | 153,164     | 800  | 61,266     | 24      |
| 2   | 2291   | City of Muleshoe Landfill             | Bailey  | 1AE      | 7,287     | 431,182     | 800  | 172,473    | 23      |
| 2   | 2268   | Morton Landfill                       | Cochran | 4AE      | 113       | 804,348     | 400  | 160,870    | 99      |
| 2   | 2207   | City of Floydada Landfill             | Floyd   | 1AE&4AE  | 6,937     | 821,815     | 830  | 341,053    | 64      |
| 2   | 2227   | City of Post Landfill                 | Garza   | 1AE&4AE  | 4,560     | 143,868     | 650  | 46,757     | 10      |
| 2   | 2157   | City of Plainview Landfill            | Hale    | 1        | 25,607    | 9,924,841   | 1024 | 5,081,519  | 198     |
| 2   | 1733   | City of Sundown Landfill              | Hockley | 4AE      | 505       | 222,856     | 850  | 94,714     | 89      |
| 2   | 2369   | City of Levelland Landfill            | Hockley | 1AE& 4AE | 11,778    | 4,803,219   | 605  | 1,452,974  | 117     |
| 2   | 363A   | City of Amherst Landfill              | Lamb    | 4AE      | 87        | 50,053      | 400  | 10,011     | 146     |
| 2   | 583A   | City of Olton Landfill                | Lamb    | 1AE      | 8,380     | 804,584     | 666  | 267,926    | 32      |
| 2   | 1298   | City of Littlefield Landfill          | Lamb    | 4AE      | 814       | 282,950     | 1400 | 198,065    | 10      |
| 2   | 2274   | Littlefield Municipal Landfill        | Lamb    | 1AE&4AE  | 6,904     | 1,252,879   | 1400 | 877,015    | 96      |
| 2   | 69     | City of Lubbock Landfill              | Lubbock | 1        | 35,996    | 489,963     | 1367 | 334,890    | 9       |
| 2   | 2252   | West Texas Regional Disposal Facility | Lubbock | 1        | 291,958   | 105,534,513 | 1238 | 65,325,864 | 224     |
| 2   | 2323   | C & D Waste Landfill                  | Lubbock | 4        | 91,133    | 2,625,484   | 666  | 874,286    | 29      |
| 2   | 2328A  | City of Tahoka Landfill               | Lynn    | 1AE      | 9,705     | 843,358     | 850  | 358,427    | 49      |
| 2   | 549A   | City of Matador Landfill              | Motley  | 1AE      | 3,413     | 476,102     | 968  | 230,433    | 68      |
| 2   | 2170   | City of Brownfield Landfill           | Terry   | 1        | 13,980    | 4,362,774   | 1014 | 2,211,926  | 159     |
| 2   | 2293   | City of Meadow Landfill               | Terry   | 1AE      | 11,682    | 1,081,069   | 800  | 432,428    | 32      |
| 2   | 2217   | Yoakum County Landfill                | Yoakum  | 1AE&4AE  | 9,550     | 1,899,831   | 800  | 759,932    | 80      |

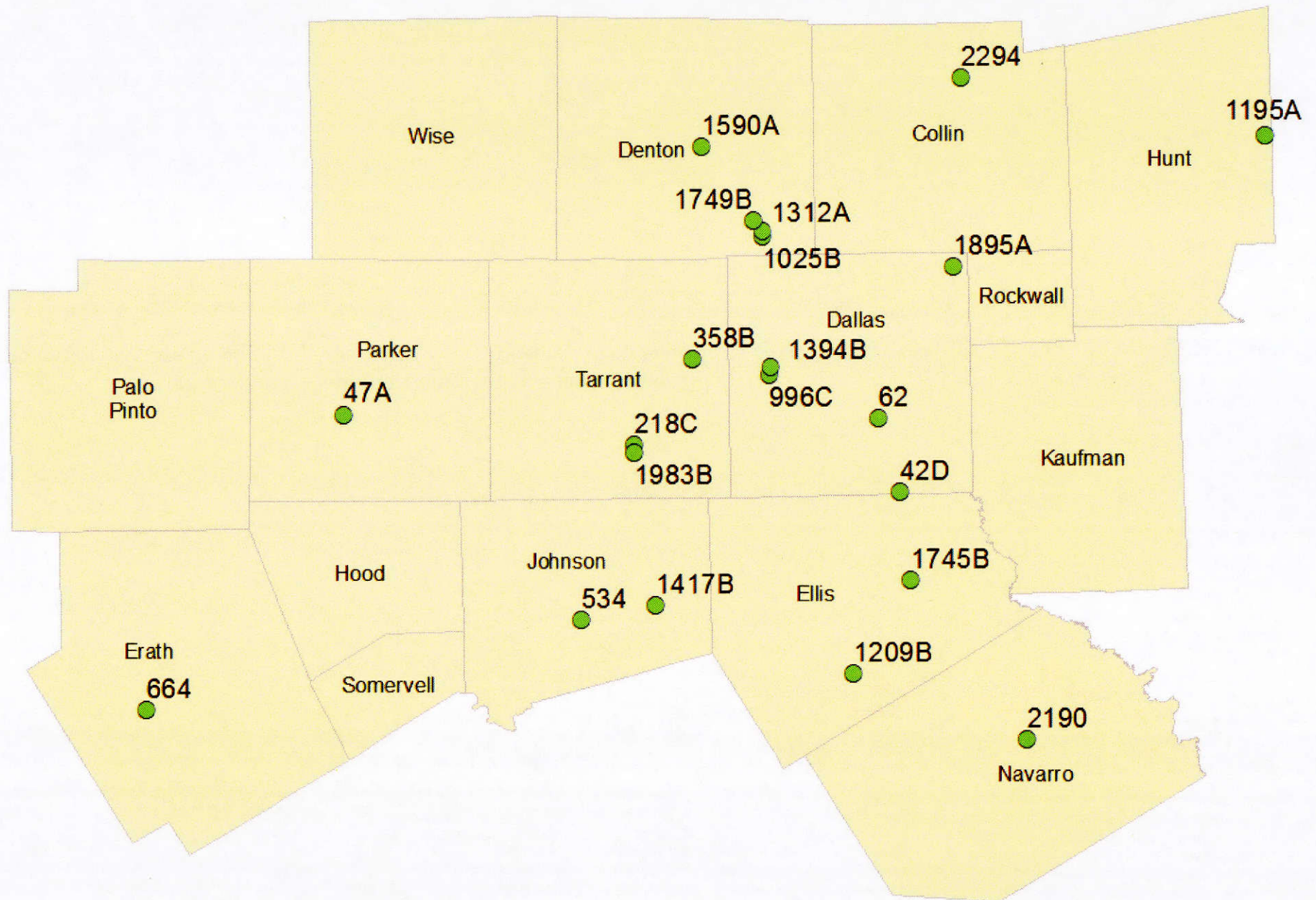
### COG 3: Nortex Regional Planning Commission—Landfill Locations



### COG 3: Nortex Regional Planning Commission—List of Landfills

| COG | Permit | Site Name                      | County   | Type     | 2016 Tons | Rem Yds    | Rate | Rem Tons   | Rem Yrs |
|-----|--------|--------------------------------|----------|----------|-----------|------------|------|------------|---------|
| 3   | 9003   | City of Quanah Landfill        | Hardeman | MONOFILL | 160       | 3,080      | 400  | 647        | N/A     |
| 3   | 1428A  | City of Wichita Falls Landfill | Wichita  | 1        | 136,646   | 68,538,459 | 1040 | 35,639,999 | 261     |
| 3   | 1571A  | IESI Buffalo Creek Landfill    | Wichita  | 1        | 165,575   | 28,809,196 | 1200 | 17,285,518 | 91      |

COG 4: North Central Texas Council of Governments—Landfill Locations

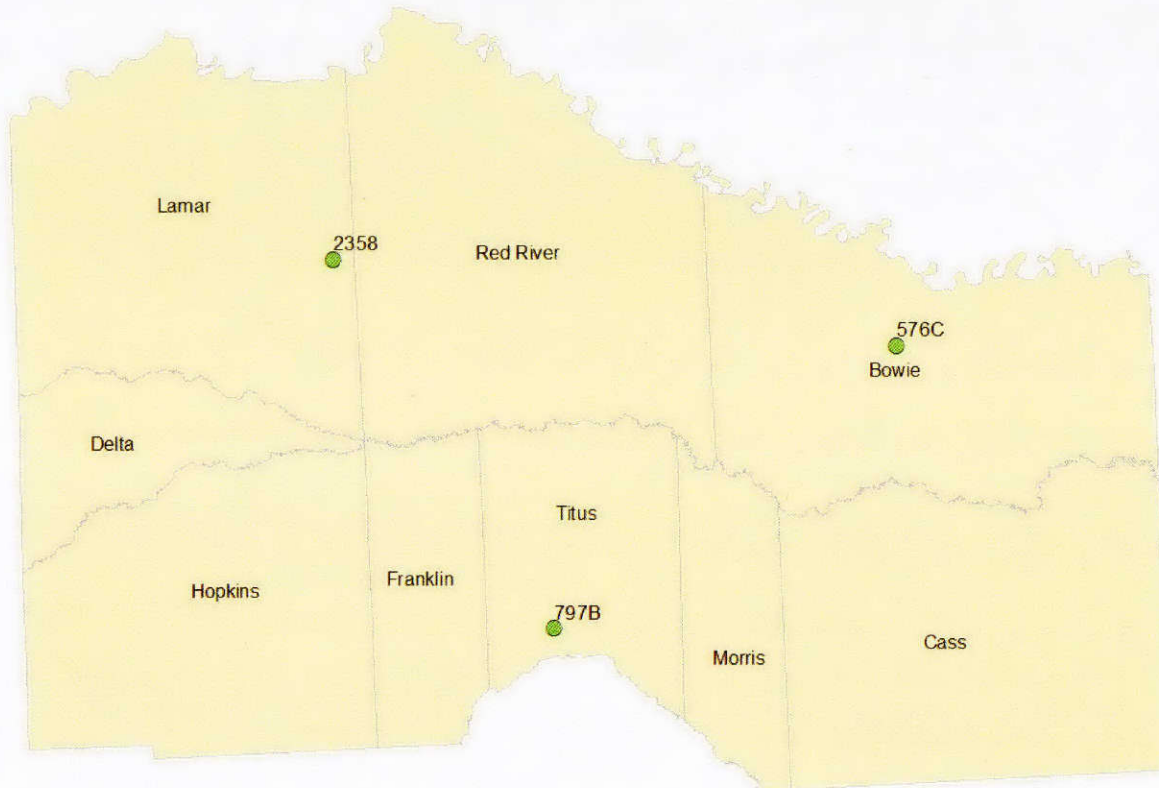




**COG 4: North Central Texas Council of Governments—List of Landfills**

| <b>COG</b> | <b>Permit</b> | <b>Site Name</b>                       | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> | <b>Rem Yds</b> | <b>Rate</b> | <b>Rem Tons</b> | <b>Rem Yrs</b> |
|------------|---------------|--|---------------|-------------|------------------|----------------|-------------|-----------------|----------------|
| 4          | 2294          | 121 Regional Disposal Facility         | Collin        | 1           | 938,184          | 118,963,816    | 1103        | 65,608,545      | 70             |
| 4          | 62            | City of Dallas McCommas Bluff Landfill | Dallas        | 1           | 2,138,532        | 87,454,891     | 1648        | 72,062,830      | 35             |
| 4          | 996C          | City of Grand Prairie Landfill         | Dallas        | 1           | 198,532          | 11,603,200     | 1028        | 5,964,045       | 38             |
| 4          | 1394B         | Hunter Ferrell Landfill                | Dallas        | 1           | 192,059          | 13,684,631     | 1500        | 10,263,473      | 54             |
| 4          | 1895A         | Charles M Hinton Jr Regional Landfill  | Dallas        | 1           | 524,385          | 31,934,026     | 1441        | 23,008,466      | 46             |
| 4          | 1025B         | DFW Recycling and Disposal Facility    | Denton        | 1           | 1,587,428        | 9,070,287      | 1760        | 7,981,853       | 7              |
| 4          | 1312A         | Camelot Landfill                       | Denton        | 1           | 267,353          | 5,464,420      | 1396        | 3,814,165       | 14             |
| 4          | 1590A         | City of Denton Landfill                | Denton        | 1           | 249,278          | 9,837,014      | 996         | 4,898,833       | 20             |
| 4          | 1749B         | Lewisville Landfill                    | Denton        | 4           | 229,914          | 20,763,041     | 1819        | 18,883,986      | 82             |
| 4          | 42D           | Waste Management Skyline Landfill      | Ellis         | 1           | 1,198,456        | 46,091,052     | 1380        | 31,802,826      | 25             |
| 4          | 1209B         | CSC Disposal and Landfill              | Ellis         | 1           | 38               | 30,964,050     | 1737        | 26,892,277      | 100            |
| 4          | 1745B         | Ellis County Landfill                  | Ellis         | 1           | 78,063           | 39,493,550     | 1362        | 26,895,108      | 345            |
| 4          | 664           | City of Stephenville Landfill          | Erath         | 4           | 18,472           | 848,350        | 1100        | 466,593         | 62             |
| 4          | 1195A         | Republic Maloy Landfill                | Hunt          | 1           | 121,191          | 5,536,956      | 1314        | 3,637,780       | 30             |
| 4          | 534           | City of Cleburne Landfill              | Johnson       | 1           | 717              | 19,297         | 1000        | 9,649           | 13             |
| 4          | 1417B         | IESI Turkey Creek Landfill             | Johnson       | 1           | 537,956          | 7,879,352      | 1600        | 6,303,482       | 12             |
| 4          | 2190          | City of Corsicana Landfill             | Navarro       | 1           | 97,951           | 23,292,030     | 1000        | 11,646,015      | 119            |
| 4          | 47A           | IESI Weatherford Landfill              | Parker        | 1           | 207,090          | 1,156,477      | 1250        | 722,798         | 3              |
| 4          | 218C          | City of Fort Worth South East Landfill | Tarrant       | 1           | 636,783          | 24,160,473     | 1612        | 19,473,341      | 31             |
| 4          | 358B          | City of Arlington Landfill             | Tarrant       | 1           | 999,203          | 50,872,145     | 1591        | 40,468,791      | 34             |
| 4          | 1983B         | IESI Fort Worth C and D Landfill       | Tarrant       | 4           | 368,465          | 2,564,489      | 1400        | 1,795,142       | 6              |

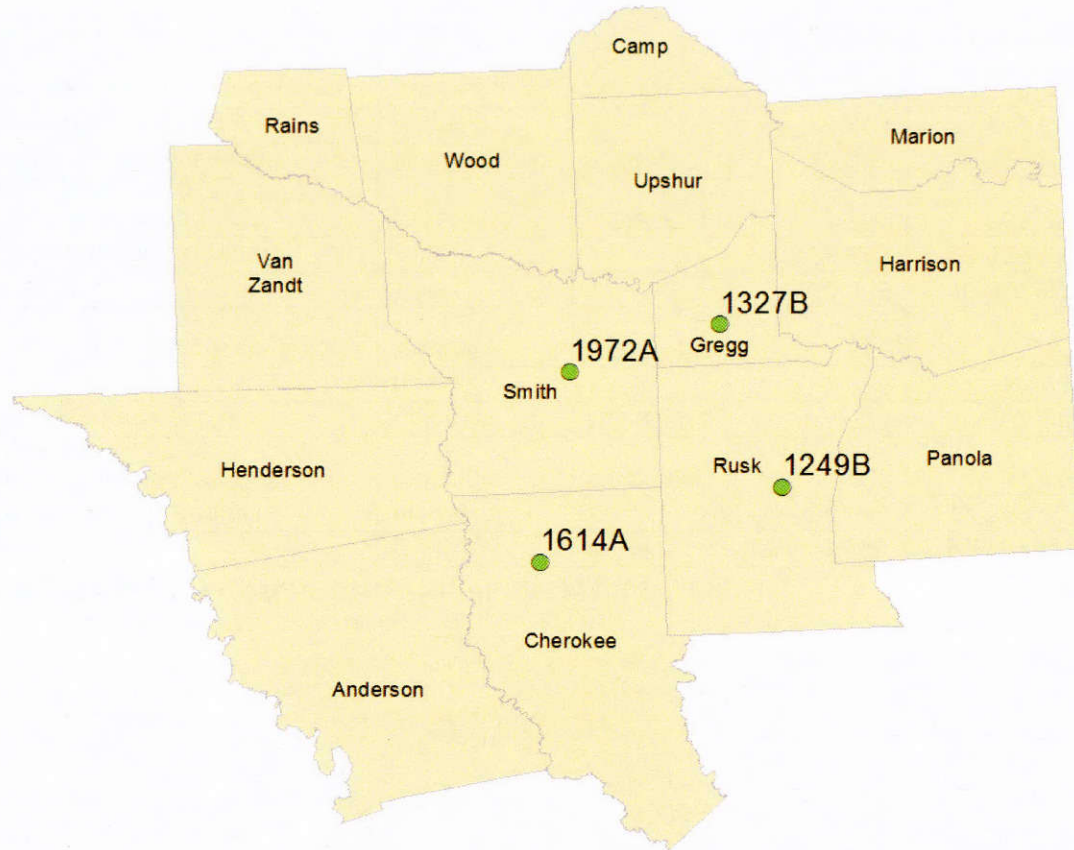
**COG 5: Ark-Tex Council of Governments—Landfill Locations**



**COG 5: Ark-Tex Council of Governments—List of Landfills**

| COG | Permit | Site Name                | County | Type | 2016 Tons | Rem Yds    | Rate | Rem Tons   | Rem Yrs |
|-----|--------|--------------------------|--------|------|-----------|------------|------|------------|---------|
| 5   | 576C   | New Boston Landfill      | Bowie  | 1    | 130,763   | 10,924,367 | 1160 | 6,336,133  | 49      |
| 5   | 2358   | Blossom Prairie Landfill | Lamar  | 1    | 201,500   | 75,745,618 | 826  | 31,282,940 | 155     |
| 5   | 797B   | Pleasant Oaks Landfill   | Titus  | 1    | 78,263    | 19,674,486 | 1823 | 17,933,294 | 229     |

## COG 6: East Texas Council of Governments—Landfill Locations



**COG 6: East Texas Council of Governments—List of Landfills**

| COG | Permit | Site Name                         | County   | Type | 2016 Tons | Rem Yds     | Rate | Rem Tons   | Rem Yrs |
|-----|--------|-----------------------------------|----------|------|-----------|-------------|------|------------|---------|
| 6   | 1614A  | Royal Oaks Landfill               | Cherokee | 1    | 85,674    | 2,298,122   | 1848 | 2,123,465  | 25      |
| 6   | 1327B  | Pinehill Landfill                 | Gregg    | 1    | 184,896   | 15,422,491  | 1871 | 14,427,740 | 78      |
| 6   | 1249B  | IESI East Texas Regional Landfill | Rusk     | 1    | 170,037   | 9,565,075   | 1500 | 7,173,806  | 45      |
| 6   | 1972A  | Greenwood Farms Landfill          | Smith    | 1    | 211,804   | 105,332,620 | 1804 | 95,010,023 | 449     |

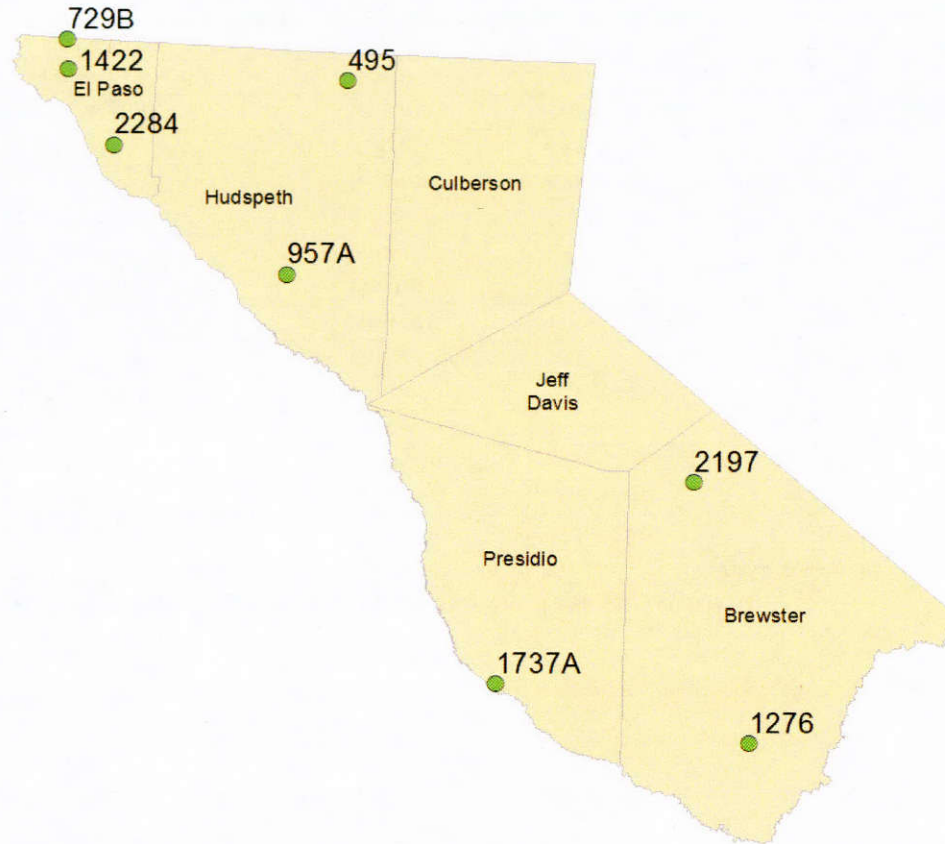
## COG 7: West Central Texas Council of Governments—Landfill Locations



### COG 7: West Central Texas Council of Governments—List of Landfills

| COG | Permit | Site Name   | County   | Type     | 2016 Tons | Rem Yds    | Rate | Rem Tons   | Rem Yrs |
|-----|--------|---|----------|----------|-----------|------------|------|------------|---------|
| 7   | 1562A  | Brownwood Regional Landfill                                 | Brown    | 1        | 94,647    | 17,569,459 | 1100 | 9,663,202  | 84      |
| 7   | 9008   | City of Cross Plains Abandoned Building Landfill            | Callahan | MONOFILL | 222       | 31,667     | 400  | 6,650      | N/A     |
| 7   | 9002   | City of Coleman Disposal Site                               | Coleman  | MONOFILL | 721       | 102,802    | 400  | 21,588     | N/A     |
| 7   | 1604B  | City of Haskell Landfill                                    | Haskell  | 1AE      | 7,180     | 763,040    | 700  | 267,064    | 8       |
| 7   | 9009   | City of Stamford Building Demolition Landfill               | Haskell  | MONOFILL | 570       | 103,245    | 400  | 21,681     | N/A     |
| 7   | 1469A  | Abilene Landfill  | Jones    | 1        | 160,155   | 88,807,579 | 1378 | 61,188,422 | 382     |
| 7   | 2325   | Abilene Environmental Landfill                              | Jones    | 1        | 125,607   | 18,579,214 | 1600 | 14,863,371 | 59      |
| 7   | 9004   | City of Anson Abandoned and Nuisance Building Disposal Site | Jones    | MONOFILL | 1,160     | 360,285    | 400  | 75,660     | N/A     |
| 7   | 420A   | Colorado City Municipal Landfill                            | Mitchell | 1AE&4AE  | 12,168    | 220,886    | 700  | 77,310     | 6       |
| 7   | 50B    | City of Sweetwater Landfill                                 | Nolan    | 4AE      | 4,424     | 140,591    | 400  | 28,118     | 2       |
| 7   | 9013   | City of Ballinger Abandoned Building Landfill               | Runnels  | MONOFILL | 370       | 46,065     | 400  | 9,674      | N/A     |
| 7   | 1463B  | City of Snyder Landfill                                     | Scurry   | 1        | 42,474    | 10,398,110 | 1000 | 5,199,055  | 122     |

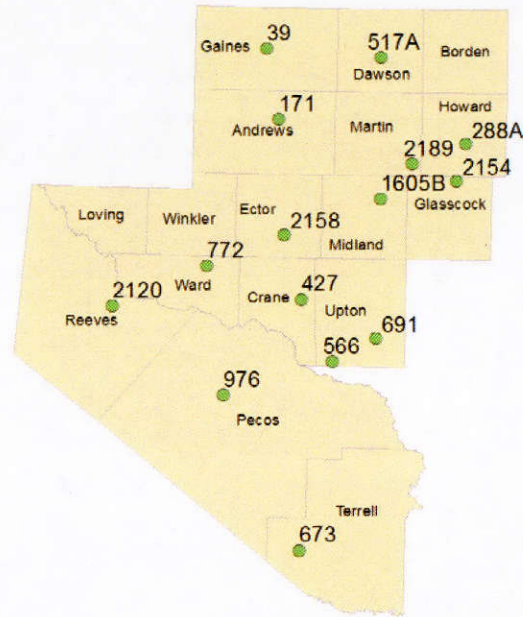
**COG 8: Rio Grande Council of Governments—Landfill Locations**



**COG 8: Rio Grande Council of Governments—List of Landfills**

| COG | Permit | Site Name                          | County   | Type    | 2016 Tons | Rem Yds    | Rate | Rem Tons   | Rem Yrs |
|-----|--------|------------------------------------|----------|---------|-----------|------------|------|------------|---------|
| 8   | 1276   | Panther Junction Landfill          | Brewster | 1AE     | 576       | 96,482     | 750  | 36,181     | 8       |
| 8   | 2197   | City of Alpine Landfill            | Brewster | 1AE     | 13,437    | 3,066,322  | 329  | 504,410    | 39      |
| 8   | 729B   | City of El Paso Landfill           | El Paso  | 1       | 7         | 63,469,328 | 1315 | 41,731,083 | 39      |
| 8   | 1422   | Fort Bliss Landfill                | El Paso  | 1       | 61        | 59,265     | 80   | 2,371      | 39      |
| 8   | 2284   | Greater El Paso Landfill           | El Paso  | 1       | 434,492   | 18,425,600 | 1315 | 12,114,832 | 23      |
| 8   | 495    | Hudspeth County Dell City Landfill | Hudspeth | 1AE&4AE | 1,168     | 193,739    | 850  | 82,339     | 18      |
| 8   | 957A   | Hudspeth County Sierra Blanca      | Hudspeth | 1AE&4AE | 4,468     | 1,271,178  | 850  | 540,251    | 61      |
| 8   | 1737A  | City of Presidio Landfill          | Presidio | 1AE     | 6,070     | 615,580    | 400  | 123,116    | 20      |

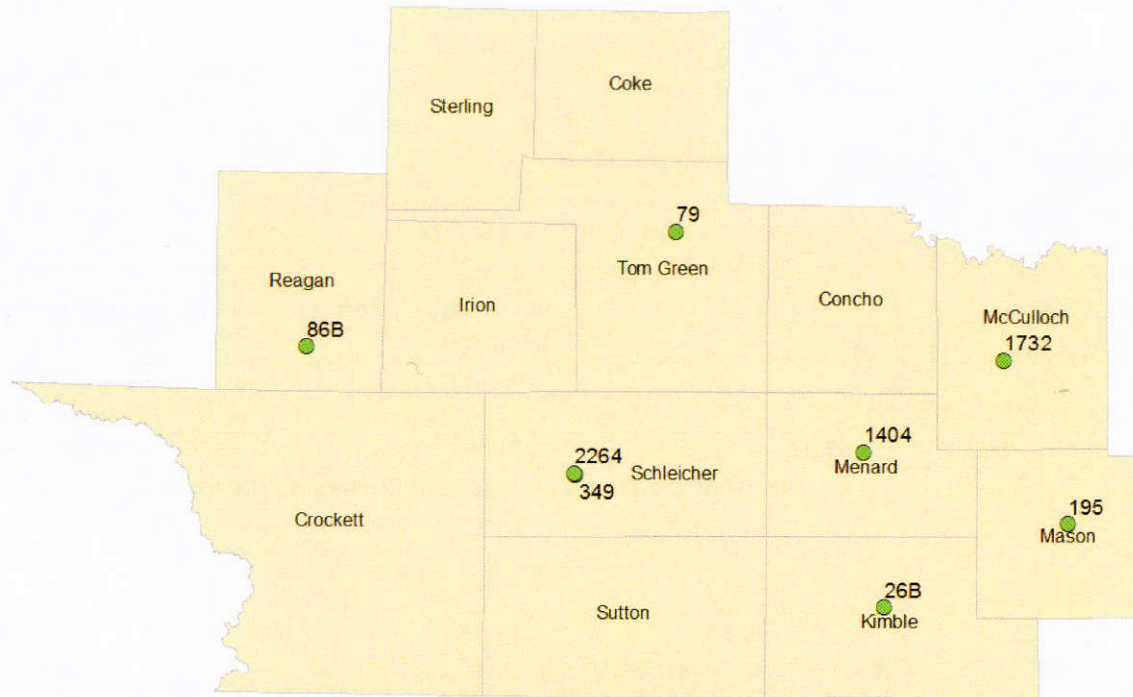
## COG 9: Permian Basin Regional Planning Commission—Landfill Locations



**COG 9: Permian Basin Regional Planning Commission—List of Landfills**

| COG | Permit | Site Name                      | County    | Type    | 2016 Tons | Rem Yds    | Rate | Rem Tons   | Rem Yrs |
|-----|--------|--------------------------------|-----------|---------|-----------|------------|------|------------|---------|
| 9   | 171    | City of Andrews Landfill       | Andrews   | 1AE&4AE | 11,232    | 900,909    | 489  | 220,272    | 20      |
| 9   | 427    | City of Crane Landfill         | Crane     | 1AE&4AE | 3,982     | 334,645    | 700  | 117,126    | 29      |
| 9   | 517A   | City of Lamesa Landfill        | Dawson    | 1       | 14,262    | 1,439,218  | 1210 | 870,727    | 61      |
| 9   | 2158   | Odessa Landfill                | Ector     | 1       | 292,391   | 31,584,942 | 1219 | 19,251,022 | 66      |
| 9   | 39     | City of Seminole Landfill      | Gaines    | 1AE&4AE | 14,335    | 1,575,302  | 750  | 590,738    | 50      |
| 9   | 2154   | Glasscock County Landfill      | Glasscock | 1AE     | 765       | 47,709     | 250  | 5,964      | 8       |
| 9   | 288A   | City of Big Spring Landfill    | Howard    | 1       | 41,922    | 440,778    | 1444 | 318,242    | 8       |
| 9   | 2189   | City of Stanton Landfill       | Martin    | 1AE     | 6,090     | 528,475    | 1000 | 264,237    | 43      |
| 9   | 1605B  | City of Midland Landfill       | Midland   | 1       | 250,134   | 32,780,407 | 1018 | 16,685,227 | 67      |
| 9   | 976    | City of Fort Stockton Landfill | Pecos     | 1AE&4AE | 15,292    | 186,835    | 800  | 74,734     | 6       |
| 9   | 2120   | City of Pecos Landfill         | Reeves    | 1AE&4AE | 18,444    | 726,124    | 850  | 308,603    | 24      |
| 9   | 673    | Terrell County Landfill        | Terrell   | 4AE     | 218       | 18,762     | 300  | 2,814      | 37      |
| 9   | 566    | City of McCamey Landfill       | Upton     | 4AE     | 3,366     | 1,217,318  | 750  | 456,494    | 6       |
| 9   | 691    | Upton County Rankin Landfill   | Upton     | 4AE     | 531       | 58,883     | 400  | 11,777     | 28      |
| 9   | 772    | City of Monahans Landfill      | Ward      | 1AE     | 11,520    | 950,449    | 850  | 403,941    | 30      |

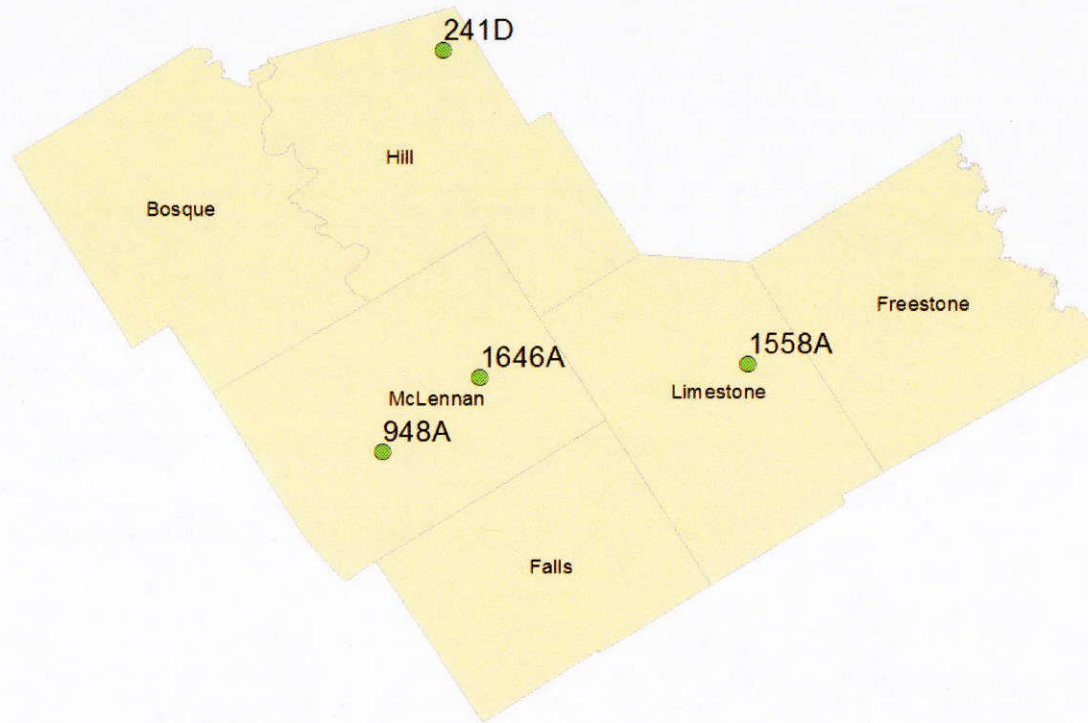
## COG 10: Concho Valley Council of Governments—Landfill Locations



**COG 10: Concho Valley Council of Governments—List of Landfills**

| COG | Permit | Site Name                 | County     | Type    | 2016 Tons | Rem Yds   | Rate | Rem Tons  | Rem Yrs |
|-----|--------|---------------------------|------------|---------|-----------|-----------|------|-----------|---------|
| 10  | 26B    | City of Junction Landfill | Kimble     | 4AE     | 1,200     | 596,708   | 1000 | 298,354   | 201     |
| 10  | 195    | City of Mason Landfill    | Mason      | 1AE     | 2,490     | 67,504    | 1000 | 33,752    | 6       |
| 10  | 1732   | City of Brady Landfill    | McCulloch  | 1AE&4AE | 9,422     | 2,201,515 | 900  | 990,682   | 40      |
| 10  | 1404   | City of Menard Landfill   | Menard     | 4AE     | 25        | 11,886    | 381  | 2,264     | 38      |
| 10  | 86B    | City of Big Lake Landfill | Reagan     | 1AE     | 4,763     | 10,917    | 740  | 4,039     | 83      |
| 10  | 349    | City of Eldorado Landfill | Schleicher | 4AE     | 1,494     | 550,755   | 2000 | 550,755   | 70      |
| 10  | 2264   | City of Eldorado Landfill | Schleicher | 1AE     | 4,128     | 1,338,648 | 2000 | 1,338,648 | 50      |
| 10  | 79     | San Angelo Landfill       | Tom Green  | 1       | 180,629   | 3,852,510 | 1293 | 2,490,648 | 14      |

**COG 11: Heart of Texas Council of Governments—Landfill Locations**

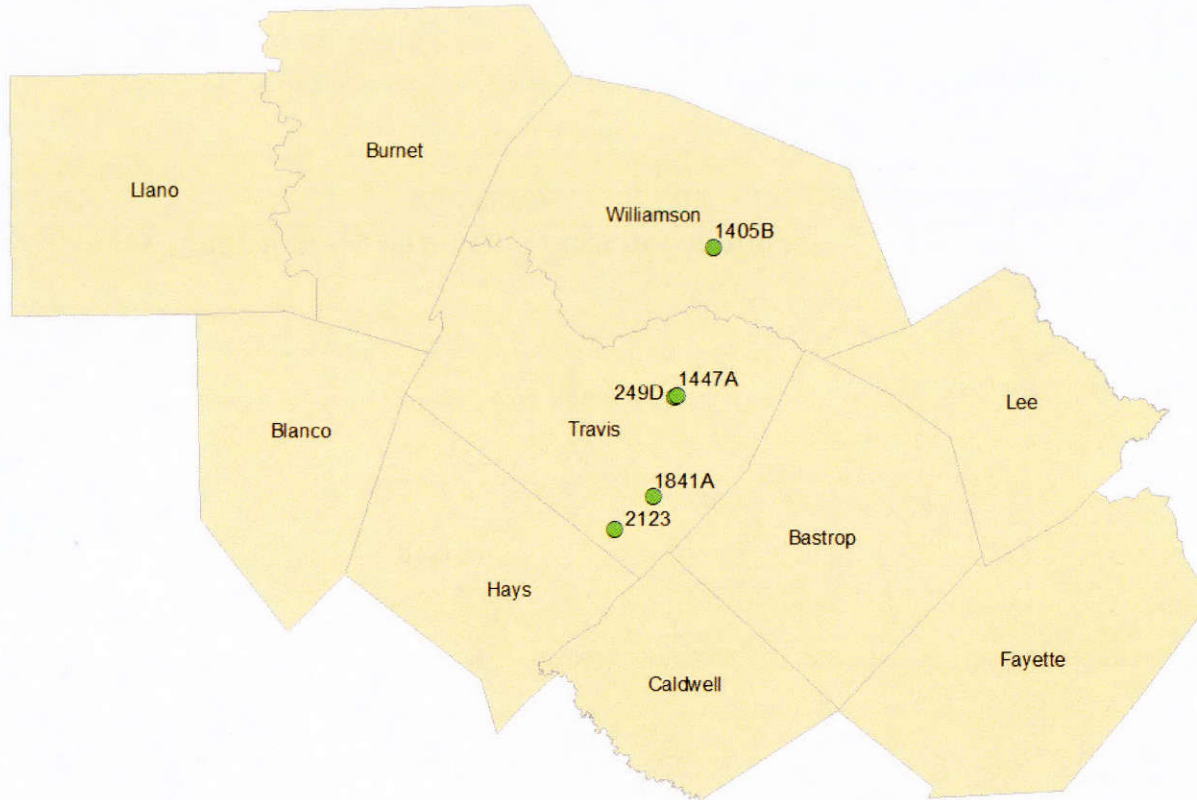


**COG 11: Heart of Texas Council of Governments—List of Landfills**

| COG | Permit | Site Name                                     | County    | Type | 2016 Tons | Rem Yds    | Rate | Rem Tons   | Rem Yrs |
|-----|--------|---|-----------|------|-----------|------------|------|------------|---------|
| 11  | 241D   | Itasca Landfill                               | Hill      | 1    | 365,833   | 48,107,006 | 1727 | 41,540,400 | 114     |
| 11  | 1558A  | BFI Mexia Landfill                            | Limestone | 1    | 31,345    | 7,690,197  | 1360 | 5,229,334  | 167     |
| 11  | 948A   | City of Waco Landfill                         | McLennan  | 1    | 288,451   | 4,582,492  | 1053 | 2,412,682  | 8       |
| 11  | 1646A  | Lacy-Lakeview Recycling and Disposal Facility | McLennan  | 1    | 83,902    | 997,278    | 1400 | 698,095    | 7       |



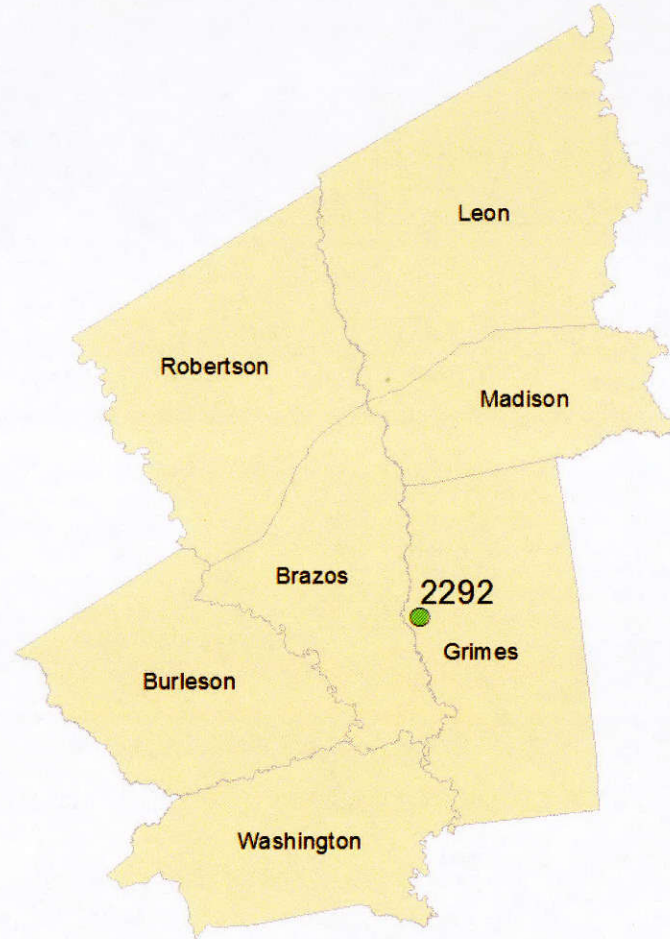
## COG 12: Capital Area Council of Governments—Landfill Locations



**COG 12: Capital Area Council of Governments—List of Landfills**

| COG | Permit | Site Name   | County     | Type | 2016 Tons | Rem Yds    | Rate | Rem Tons   | Rem Yrs |
|-----|--------|---|------------|------|-----------|------------|------|------------|---------|
| 12  | 249D   | Austin Community Recycling & Disposal Facility    | Travis     | 1    | 881,157   | 11,630,778 | 1500 | 8,723,084  | 13      |
| 12  | 1447A  | BFI Sunset Farms Landfill                         | Travis     | 1    | 115,669   | 5,286,740  | 1386 | 3,663,711  | 0       |
| 12  | 1841A  | IESI Travis County Landfill                       | Travis     | 4    | 205,541   | 2,359,997  | 1200 | 1,415,998  | 7       |
| 12  | 2123   | Texas Disposal Systems Landfill                   | Travis     | 1    | 811,685   | 21,612,344 | 1360 | 14,696,394 | 18      |
| 12  | 1405B  | Williamson County Recycling and Disposal Facility | Williamson | 1    | 362,430   | 59,983,006 | 1500 | 44,987,255 | 114     |

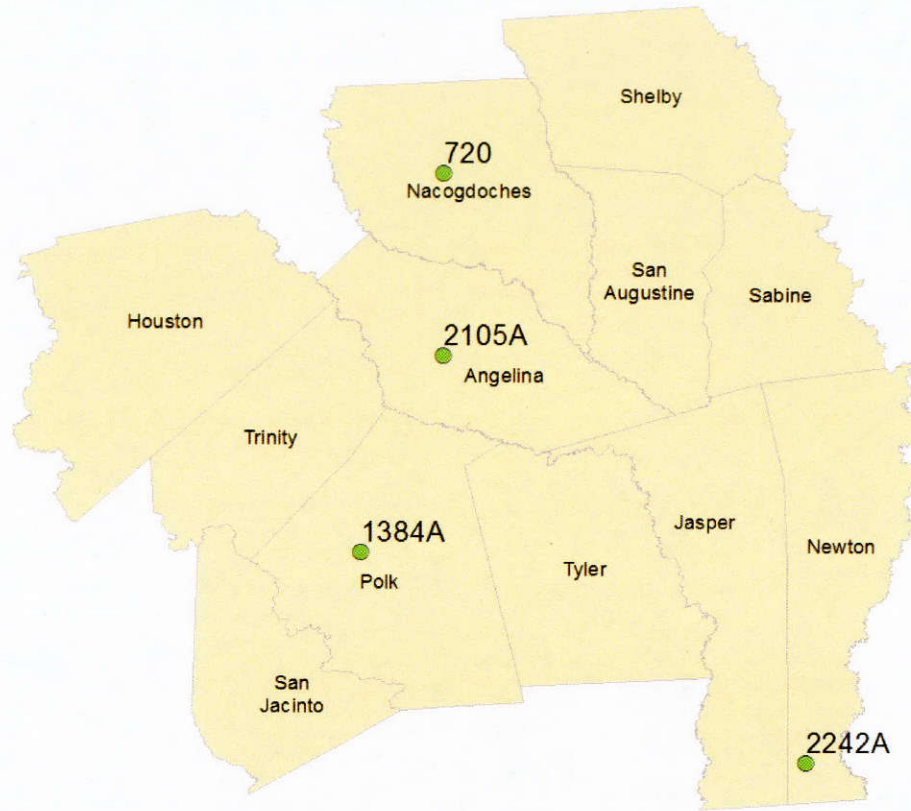
**COG 13: Brazos Valley Council of Governments—Landfill Locations**



**COG 13: Brazos Valley Council of Governments—List of Landfills**

| <b>COG</b> | <b>Permit</b> | <b>Site Name</b>   | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> | <b>Rem Yds</b> | <b>Rate</b> | <b>Rem Tons</b> | <b>Rem Yrs</b> |
|------------|---------------|--------------------|---------------|-------------|------------------|----------------|-------------|-----------------|----------------|
| 13         | 2292          | Twin Oaks Landfill | Grimes        | 1           | 373,944          | 34,671,483     | 1575        | 27,303,793      | 75             |

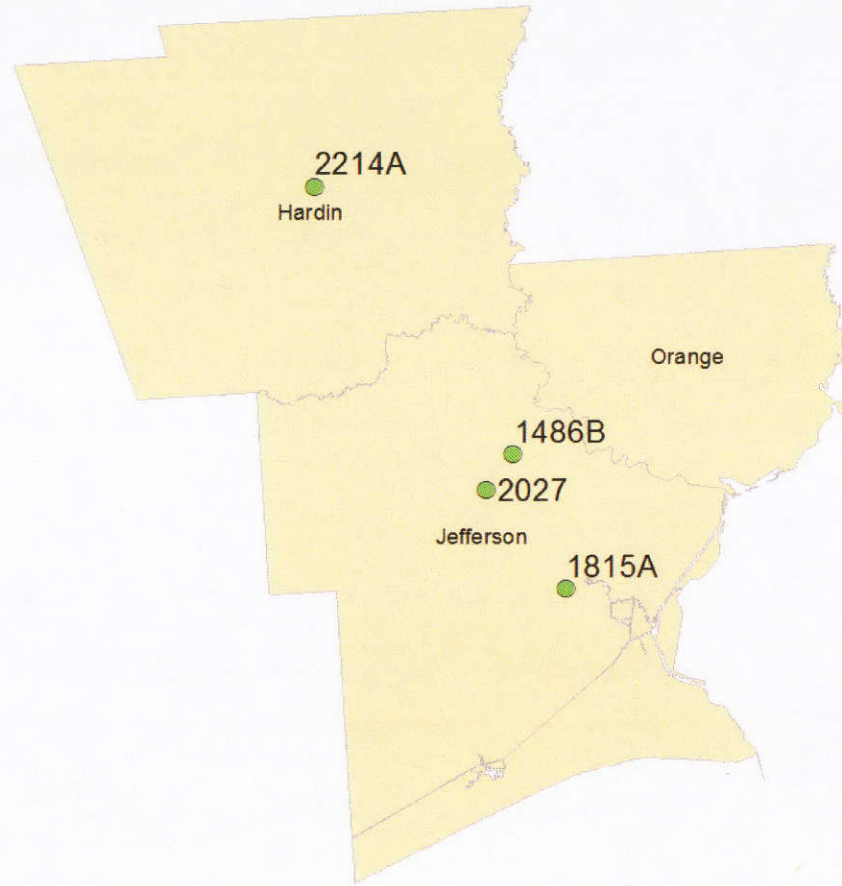
## COG 14: Deep East Texas Council of Governments—Landfill Locations



### COG 14: Deep East Texas Council of Governments—List of Landfills

| COG | Permit | Site Name                               | County      | Type | 2016 Tons | Rem Yds    | Rate | Rem Tons   | Rem Yrs |
|-----|--------|---|-------------|------|-----------|------------|------|------------|---------|
| 14  | 2105A  | Angelina County Waste Management Center | Angelina    | 1    | 100,172   | 3,553,380  | 1200 | 2,132,028  | 21      |
| 14  | 720    | City of Nacogdoches Landfill            | Nacogdoches | 1    | 77,780    | 2,951,738  | 1150 | 1,697,249  | 34      |
| 14  | 2242A  | Western Waste of Texas Newton Complex   | Newton      | 1    | 232,887   | 42,207,920 | 1240 | 26,168,910 | 144     |
| 14  | 1384A  | Polk County Landfill                    | Polk        | 1    | 114,283   | 8,013,557  | 1429 | 5,725,686  | 49      |

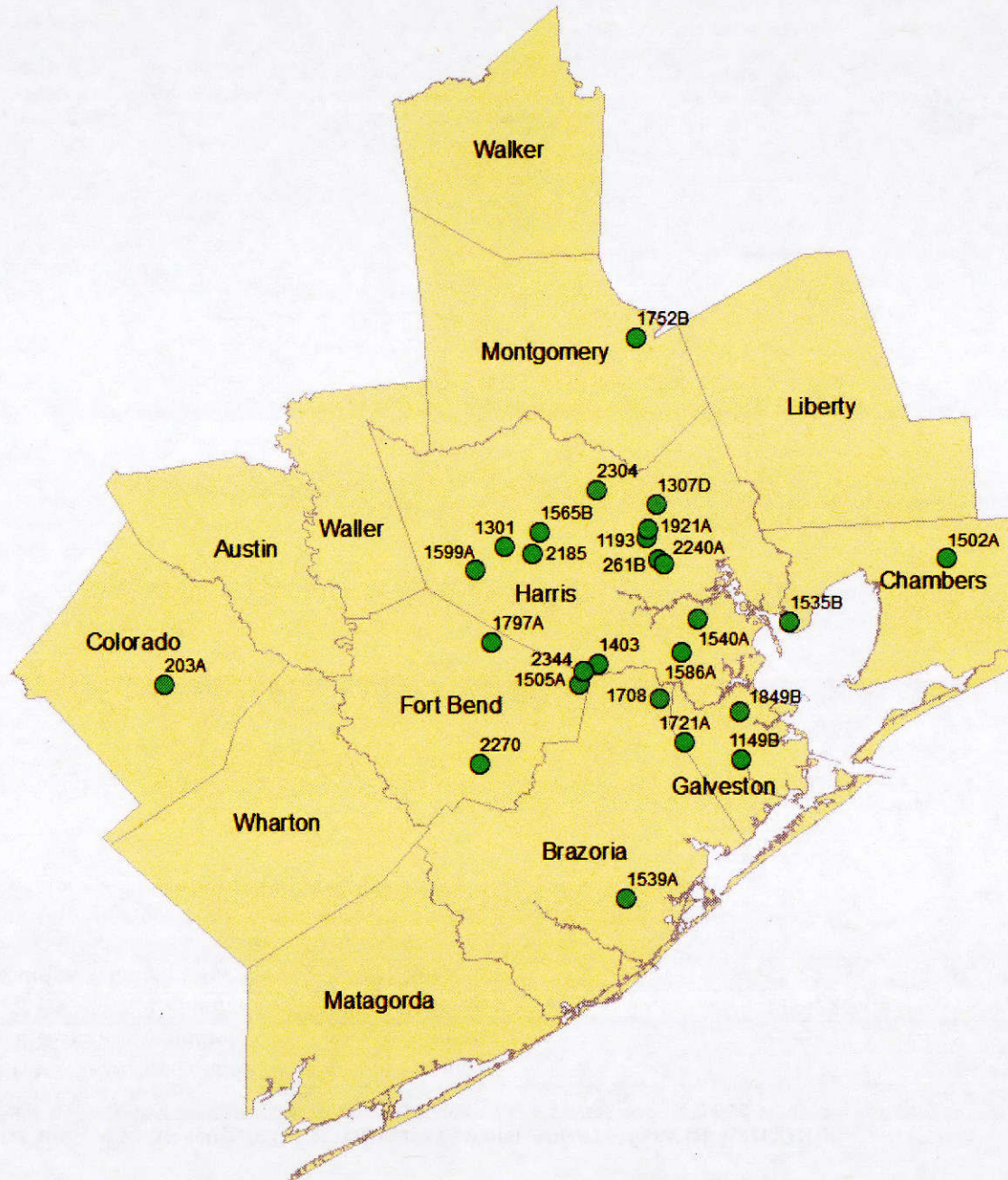
**COG 15: South East Texas Regional Planning Commission—Landfill Locations**



**COG 15: South East Texas Regional Planning Commission—List of Landfills**

| <b>COG</b> | <b>Permit</b> | <b>Site Name</b>             | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> | <b>Rem Yds</b> | <b>Rate</b> | <b>Rem Tons</b> | <b>Rem Yrs</b> |
|------------|---------------|------------------------------|---------------|-------------|------------------|----------------|-------------|-----------------|----------------|
| 15         | 2214A         | IESI Hardin County Landfill  | Hardin        | 1           | 57,359           | 904,090        | 1634        | 738,642         | 12             |
| 15         | 1486B         | City of Beaumont Landfill    | Jefferson     | 1           | 258,425          | 18,191,897     | 1384        | 12,588,793      | 49             |
| 15         | 1815A         | City of Port Arthur Landfill | Jefferson     | 1           | 119,227          | 15,376,222     | 1159        | 8,910,521       | 75             |
| 15         | 2027          | BFI Golden Triangle Landfill | Jefferson     | 1           | 255,253          | 7,682,050      | 1517        | 5,826,835       | 22             |

**COG 16: Houston-Galveston Area Council—Landfill Locations**



**COG 16: Houston-Galveston Area Council—List of Landfills**

| <b>COG</b> | <b>Permit</b> | <b>Site Name</b>                               | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> | <b>Rem Yds</b> | <b>Rate</b> | <b>Rem Tons</b> | <b>Rem Yrs</b> |
|------------|---------------|--|---------------|-------------|------------------|----------------|-------------|-----------------|----------------|
| 16         | 1539A         | Seabreeze Environmental Landfill               | Brazoria      | 1           | 621,778          | 22,119,360     | 1766        | 19,531,395      | 31             |
| 16         | 1708          | Dixie Farm Road Landfill                       | Brazoria      | 4           | 48,961           | 1,968,370      | 880         | 866,083         | 18             |
| 16         | 1502A         | Chambers County Landfill                       | Chambers      | 1           | 22,885           | 17,512,814     | 1200        | 10,507,688      | 459            |
| 16         | 1535B         | Baytown Landfill                               | Chambers      | 1           | 289,103          | 9,158,839      | 1580        | 7,235,483       | 26             |
| 16         | 203A          | Altair Disposal Services Landfill              | Colorado      | 1           | 54,897           | 509,495        | 1000        | 254,748         | 6              |
| 16         | 1505A         | Blue Ridge Landfill                            | Fort Bend     | 1           | 1,261,030        | 144,743,368    | 1505        | 108,919,384     | 94             |
| 16         | 1797A         | Sprint Fort Bend County Landfill               | Fort Bend     | 4           | 339,836          | 14,209,714     | 972         | 6,905,921       | 20             |
| 16         | 2270          | Fort Bend Regional Landfill                    | Fort Bend     | 1           | 1,083,626        | 37,208,307     | 1750        | 32,557,269      | 30             |
| 16         | 1149B         | Galveston County Landfill                      | Galveston     | 1           | 357,493          | 37,676,021     | 1533        | 28,878,670      | 54             |
| 16         | 1721A         | Coastal Plains Recycling and Disposal Facility | Galveston     | 1           | 531,755          | 12,429,001     | 1880        | 11,683,261      | 22             |
| 16         | 1849B         | North County Landfill                          | Galveston     | 4           | 24               | 3,689,415      | 2130        | 3,929,227       | 50             |
| 16         | 261B          | McCarty Road Landfill                          | Harris        | 1           | 1,116,311        | 22,706,328     | 2214        | 25,135,905      | 19             |
| 16         | 1193          | Whispering Pines Landfill                      | Harris        | 1           | 20               | 10,902,323     | 2000        | 10,902,323      | 10             |
| 16         | 1301          | Addicks Fairbanks Landfill                     | Harris        | 4           | 129,328          | 274,492        | 1320        | 181,165         | 1              |
| 16         | 1307D         | Atascocita Recycling and Disposal Facility     | Harris        | 1           | 1,253,621        | 39,697,262     | 1540        | 30,566,892      | 28             |
| 16         | 1403          | Casco Hauling and Excavation Landfill          | Harris        | 4           | 83,589           | 1,435,889      | 900         | 646,150         | 8              |
| 16         | 1540A         | Greenshadows Landfill                          | Harris        | 4           | 110,199          | 2,673,385      | 1640        | 2,192,176       | 21             |
| 16         | 1565B         | Fairbanks Landfill                             | Harris        | 4           | 53,814           | 17,932,328     | 1500        | 13,449,246      | 39             |
| 16         | 1586A         | WCT Greenbelt Landfill                         | Harris        | 4           | 135,280          | 3,161,192      | 1500        | 2,370,894       | 13             |
| 16         | 1599A         | Greenhouse Road Landfill                       | Harris        | 4           | 123,931          | 5,651,000      | 1500        | 4,238,250       | 20             |
| 16         | 1921A         | Cougar Landfill                                | Harris        | 4           | 16               | 69,373         | 1400        | 48,561          | 4              |
| 16         | 2185          | Hawthorn Park Landfill                         | Harris        | 4           | 151,350          | 4,466          | 1540        | 3,439           | 4              |
| 16         | 2240A         | Ralston Road Landfill                          | Harris        | 4           | 114,814          | 614,977        | 1500        | 461,233         | 4              |
| 16         | 2304          | Tall Pines Landfill                            | Harris        | 4           | 316,931          | 2,285,381      | 1500        | 1,714,036       | 5              |
| 16         | 2344          | Lone Star Recycling and Disposal Facility      | Harris        | 4           | 323,610          | 11,637,728     | 1078        | 6,272,735       | 18             |
| 16         | 1752B         | Security Recycling and Disposal Facility       | Montgomery    | 1           | 447,184          | 12,978,673     | 1460        | 9,474,431       | 24             |

**COG 17: Golden Crescent Regional Planning Commission—Landfill Locations**

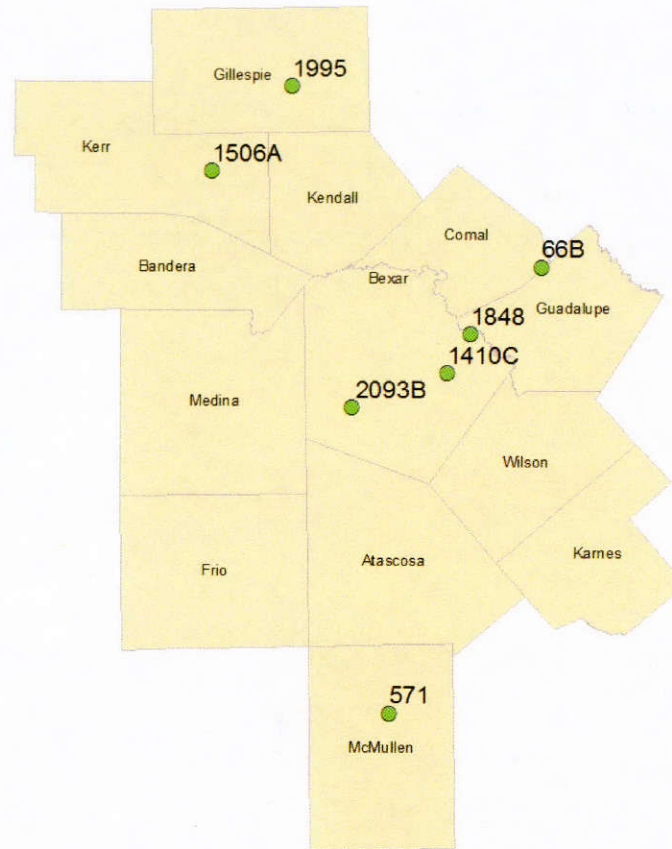


**COG 17: Golden Crescent Regional Planning Commission—List of Landfills**

| <b>COG</b> | <b>Permit</b> | <b>Site Name</b>          | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> | <b>Rem Yds</b> | <b>Rate</b> | <b>Rem Tons</b> | <b>Rem Yrs</b> |
|------------|---------------|---------------------------|---------------|-------------|------------------|----------------|-------------|-----------------|----------------|
| 17         | 1522A         | City of Victoria Landfill | Victoria      | 1           | 148,414          | 7,350,520      | 1367        | 5,024,080       | 29             |



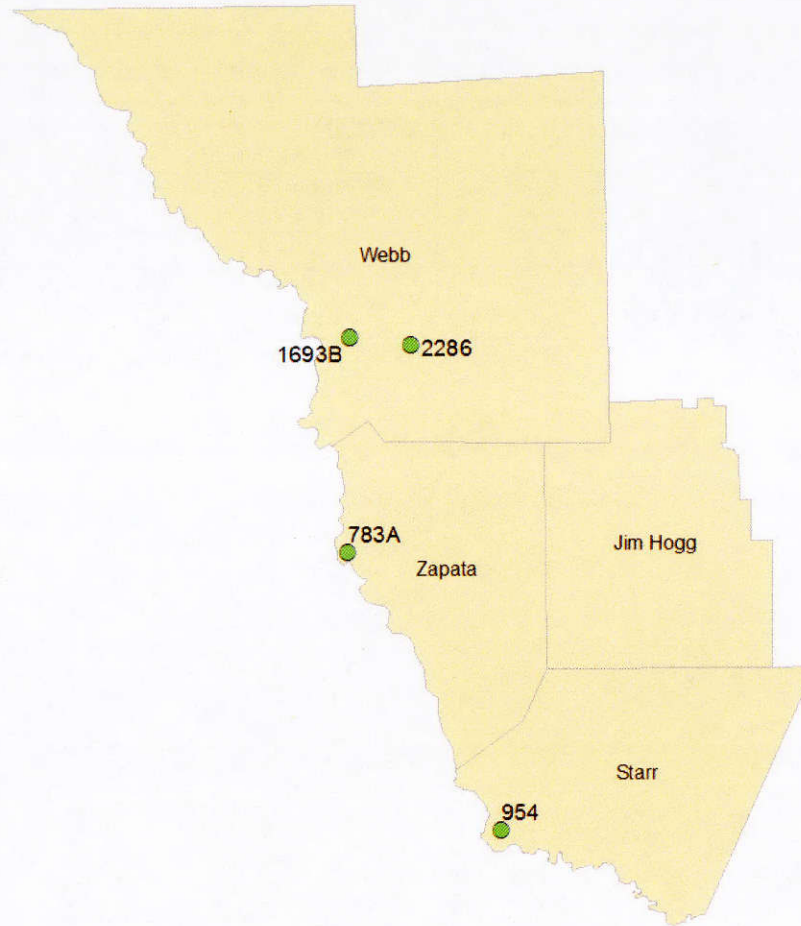
## COG 18: Alamo Area Council of Governments—Landfill Locations



### COG 18: Alamo Area Council of Governments—List of Landfills

| COG | Permit | Site Name                       | County              | Type | 2016 Tons | Rem Yds     | Rate | Rem Tons   | Rem Yrs |
|-----|--------|---------------------------------|---------------------|------|-----------|-------------|------|------------|---------|
| 18  | 1410C  | BFI Waste Tessman Road Landfill | Bexar               | 1    | 835,155   | 71,734,411  | 1706 | 61,189,453 | 47      |
| 18  | 2093B  | Covel Gardens Landfill          | Bexar               | 1    | 1,117,296 | 104,618,793 | 1750 | 91,541,444 | 78      |
| 18  | 66B    | Mesquite Creek Landfill         | Comal and Guadalupe | 1    | 457,219   | 11,445,963  | 1750 | 10,015,218 | 20      |
| 18  | 1995   | City of Fredericksburg Landfill | Gillespie           | 1    | 32,067    | 1,631,138   | 1180 | 962,371    | 25      |
| 18  | 1848   | Beck Landfill                   | Guadalupe           | 4    | 423,833   | 4,920,543   | 1300 | 3,198,353  | 15      |
| 18  | 1506A  | City of Kerrville Landfill      | Kerr                | 1    | 9,233     | 693,821     | 2621 | 909,252    | 14      |
| 18  | 571    | McMullen County                 | McMullen            | 1AE  | 500       | 8,669       | 750  | 3,251      | 7       |

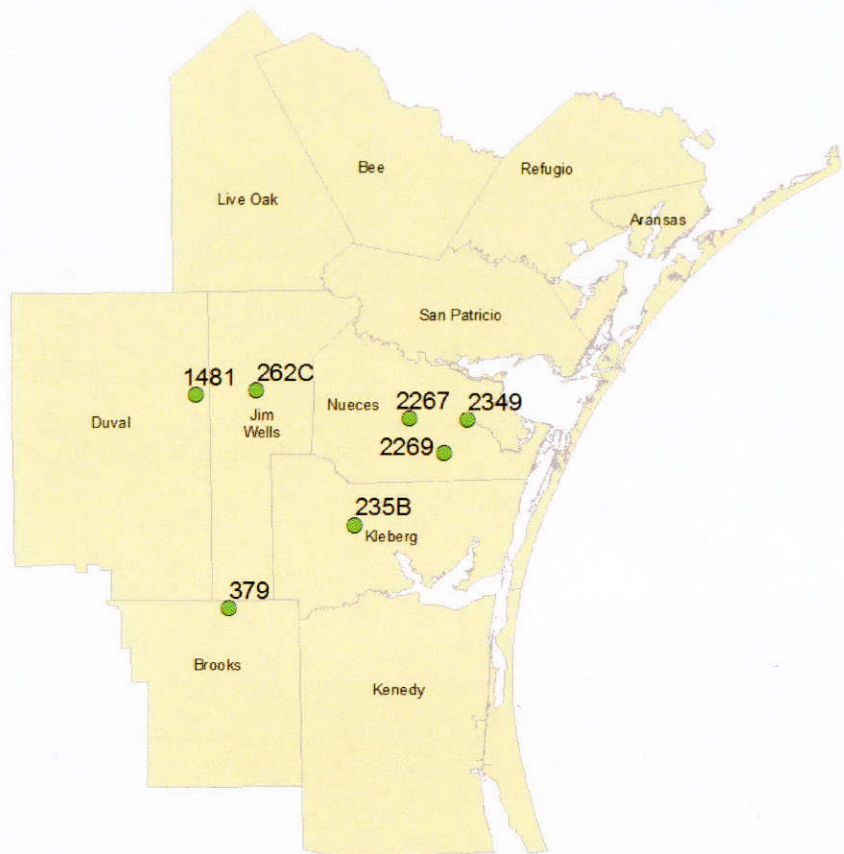
**COG 19: South Texas Development Council—Landfill Locations**



**COG 19: South Texas Development Council—List of Landfills**

| COG | Permit | Site Name                   | County | Type    | 2016 Tons | Rem Yds    | Rate | Rem Tons   | Rem Yrs |
|-----|--------|-----------------------------|--------|---------|-----------|------------|------|------------|---------|
| 19  | 954    | City of Roma Landfill       | Starr  | 1AE     | 4,118     | 27,445     | 850  | 11,664     | 2       |
| 19  | 1693B  | City of Laredo Landfill     | Webb   | 1       | 371,264   | 7,563,837  | 1296 | 4,901,366  | 13      |
| 19  | 2286   | Ponderosa Regional Landfill | Webb   | 1       | 44,280    | 88,015,501 | 1060 | 46,648,216 | 93      |
| 19  | 783A   | San Ygnacio Landfill        | Zapata | 1AE&4AE | 2,183     | 282,171    | 1000 | 141,086    | 36      |

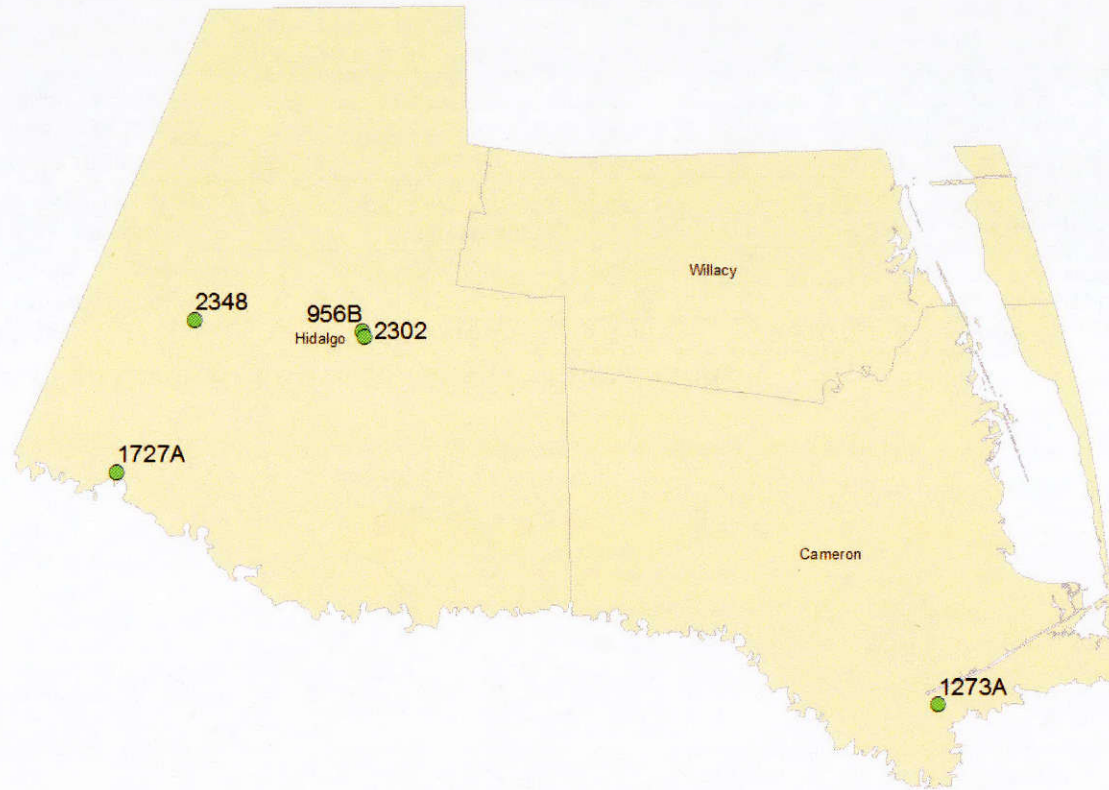
**COG 20: Coastal Bend Council of Governments—Landfill Locations**



**COG 20: Coastal Bend Council of Governments—List of Landfills**

| COG | Permit | Site Name                   | County    | Type | 2016 Tons | Rem Yds     | Rate | Rem Tons   | Rem Yrs |
|-----|--------|-----------------------------|-----------|------|-----------|-------------|------|------------|---------|
| 20  | 379    | Brooks County Landfill      | Brooks    | 4AE  | 318       | 293,621     | 400  | 58,724     | 28      |
| 20  | 1481   | Duval County Landfill       | Duval     | 4AE  | 1,562     | 20,118      | 800  | 8,047      | 10      |
| 20  | 262C   | City of Alice Landfill      | Jim Wells | 1    | 29,244    | 745,848     | 1200 | 447,509    | 15      |
| 20  | 235B   | City of Kingsville Landfill | Kleberg   | 1    | 29,846    | 3,119,758   | 827  | 1,290,020  | 44      |
| 20  | 2267   | El Centro Landfill          | Nueces    | 1    | 139,658   | 14,632,139  | 1947 | 14,244,387 | 60      |
| 20  | 2269   | Cefe Valenzuela Landfill    | Nueces    | 1    | 429,862   | 123,749,637 | 1342 | 83,036,006 | 100     |
| 20  | 2349   | Gulley Hurst Landfill       | Nueces    | 4    | 85,412    | 11,182,632  | 750  | 4,193,487  | 49      |

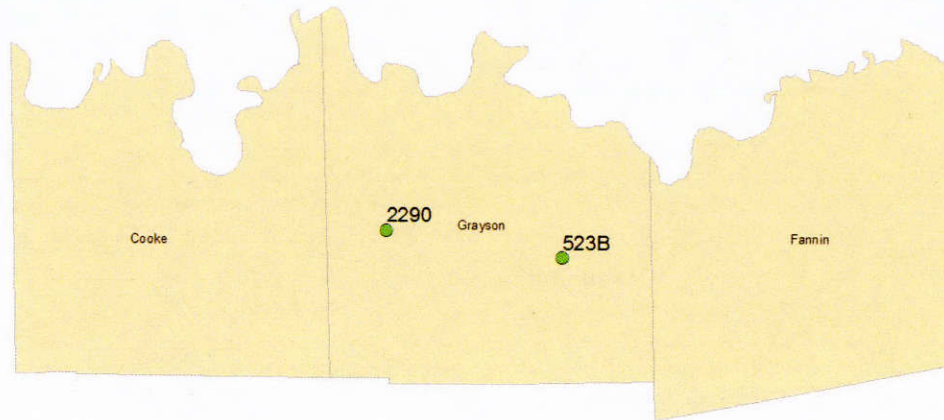
**COG 21: Lower Rio Grande Valley Development Council—Landfill Locations**



**COG 21: Lower Rio Grande Valley Development Council—List of Landfills**

| COG | Permit | Site Name                              | County  | Type | 2016 Tons | Rem Yds     | Rate | Rem Tons   | Rem Yrs |
|-----|--------|--|---------|------|-----------|-------------|------|------------|---------|
| 21  | 1273A  | City of Brownsville Municipal Landfill | Cameron | 1    | 306,905   | 28,062,403  | 1378 | 19,334,996 | 47      |
| 21  | 956B   | City of Edinburg Landfill              | Hidalgo | 1    | 494,319   | 5,738,692   | 1215 | 3,486,255  | 7       |
| 21  | 1727A  | Penas Landfill                         | Hidalgo | 1AE  | 6,666     | 37,358      | 1000 | 18,679     | 1       |
| 21  | 2302   | City of Edinburg Landfill              | Hidalgo | 4    | 123,725   | 10,428,464  | 920  | 4,797,093  | 31      |
| 21  | 2348   | La Gloria Ranch Landfill               | Hidalgo | 1    | 288,990   | 109,567,542 | 1278 | 70,013,659 | 177     |

**COG 22: Texoma Council of Governments—Landfill Locations**



**COG 22: Texoma Council of Governments—List of Landfills**

| <b>COG</b> | <b>Permit</b> | <b>Site Name</b>  | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> | <b>Rem Yds</b> | <b>Rate</b> | <b>Rem Tons</b> | <b>Rem Yrs</b> |
|------------|---------------|---|---------------|-------------|------------------|----------------|-------------|-----------------|----------------|
| 22         | 523B          | Hillside Landfill   | Grayson       | 1           | 56,725           | 11,392,083     | 960         | 5,468,200       | 100            |
| 22         | 2290          | TEXOMA Area Solid Waste Authority Disposal and Recycling Facility | Grayson       | 1           | 144,375          | 22,844,142     | 900         | 10,279,864      | 71             |

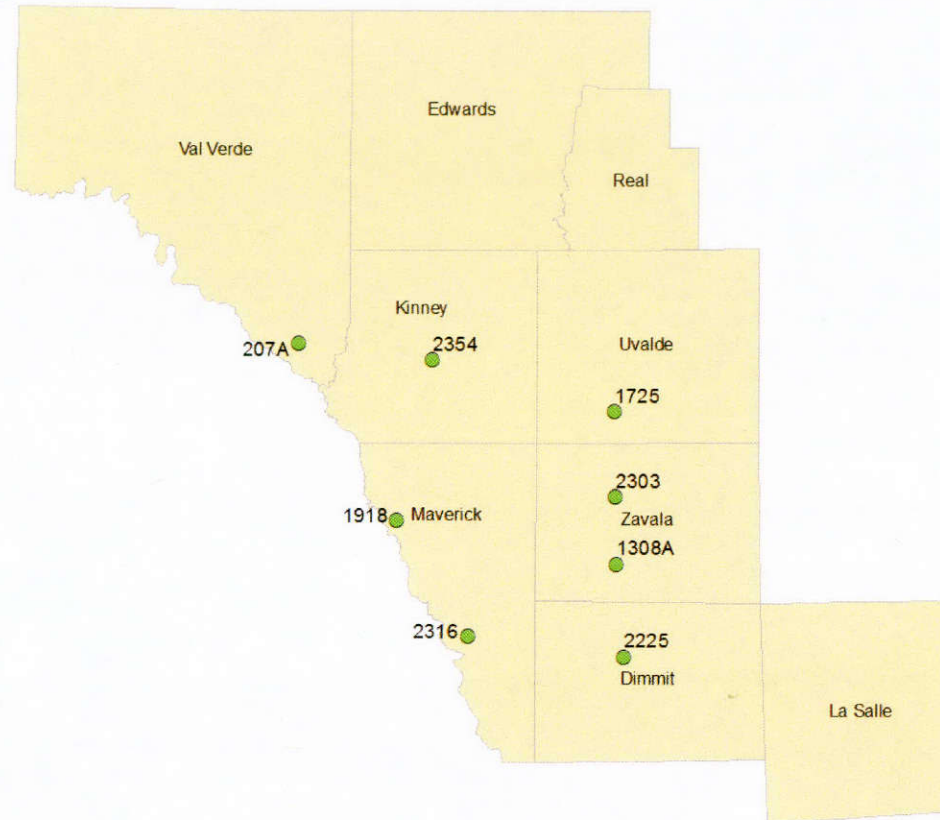
**COG 23: Central Texas Council of Governments—Landfill Locations**



**COG 23: Central Texas Council of Governments—List of Landfills**

| COG | Permit | Site Name                              | County  | Type | 2016 Tons | Rem Yds   | Rate | Rem Tons  | Rem Yrs |
|-----|--------|--|---------|------|-----------|-----------|------|-----------|---------|
| 23  | 692A   | Temple Recycling and Disposal Facility | Bell    | 1    | 401,460   | 7,228,661 | 1400 | 5,060,063 | 11      |
| 23  | 1866   | Fort Hood Landfill                     | Coryell | 1    | 16,587    | 2,706,746 | 1100 | 1,488,710 | 30      |

## COG 24: Middle Rio Grande Valley Development Council—Landfill Locations



### COG 24: Middle Rio Grande Valley Development Council—List of Landfills

| COG | Permit | Site Name                                | County    | Type | 2016 Tons | Rem Yds    | Rate | Rem Tons  | Rem Yrs |
|-----|--------|--|-----------|------|-----------|------------|------|-----------|---------|
| 24  | 2225   | City of Carrizo Springs Landfill         | Dimmit    | 1AE  | 6,365     | 1,577,873  | 600  | 473,362   | 59      |
| 24  | 2354   | Fort Clark Springs Association Landfill  | Kinney    | 1AE  | 457       | 463,674    | 800  | 185,470   | 147     |
| 24  | 1918   | City of Eagle Pass and Maverick Landfill | Maverick  | 4AE  | 2,287     | 1,131,175  | 750  | 424,191   | 19      |
| 24  | 2316   | Maverick County El Indio Landfill        | Maverick  | 1    | 51,773    | 11,455,443 | 1000 | 5,727,722 | 68      |
| 24  | 1725   | City of Uvalde Landfill                  | Uvalde    | 1    | 21,784    | 328,337    | 1000 | 164,169   | 8       |
| 24  | 207A   | City of Del Rio Landfill                 | Val Verde | 1    | 54,092    | 1,245,552  | 700  | 435,943   | 8       |
| 24  | 1308A  | City of Crystal City Landfill            | Zavala    | 1AE  | 5,878     | 1,419,399  | 850  | 603,245   | 30      |
| 24  | 2303   | Zavala County Landfill                   | Zavala    | 1AE  | 3,746     | 133,245    | 550  | 36,642    | 21      |





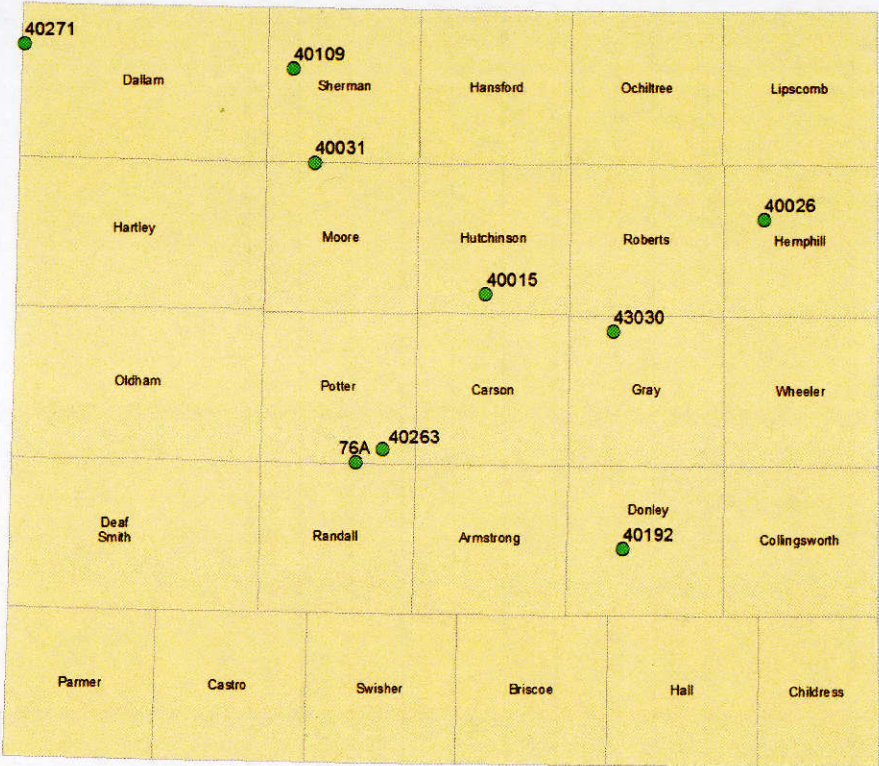
# Facility Data for MSW Processing Facilities

The maps and tables included in this section represent the MSW processing facilities active in fiscal year 2016, and the reported tons of materials handled in terms of the major activity (e.g., for a transfer station, total tons transferred; for an incinerator, total tons incinerated). The maps and tables are organized by COG Region and county. All values are rounded to the nearest whole number.

**Key to Processing Facility Types**

| Type | Description  |
|------|--|
| 5AC  | Medical waste autoclave facility   |
| 5GG  | Liquid waste (i.e., grease trap waste, grit trap waste, sludge, septage) processing facility |
| 5MW  | Medical waste processor  |
| 5RC  | Composting facility  |
| 5RR  | Recycling & recovery facility  |
| 5TL  | Liquid waste transfer station  |
| 5TS  | Transfer station   |
| 5WI  | Incinerator (no electrical power generation)   |

**COG 1: Panhandle Regional Planning Commission—Processing Facility Locations**



**COG 1: Panhandle Regional Planning Commission—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>                               | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|--|---------------|-------------|------------------|
| 1          | 40271                         | Tri-State Recycling                            | Dallam        | 5TS         | 8,471            |
| 1          | 40192                         | City of Clarendon Transfer Station             | Donley        | 5TS         | 1,743            |
| 1          | 43030                         | City of Pampa Liquid Waste Processing Facility | Gray          | 5GG         | 845              |
| 1          | 40026                         | City of Canadian Transfer Station              | Hemphill      | 5TS         | 4,314            |
| 1          | 40015                         | City of Borger Transfer Station                | Hutchinson    | 5TS         | 19,943           |
| 1          | 40031                         | City of Cactus Transfer Station                | Moore         | 5TS         | 1,334            |
| 1          | 76A                           | City of Amarillo Transfer Station              | Potter        | 5TS         | 156,197          |
| 1          | 40263                         | Biocycle Medical Waste Processing Facility     | Potter        | 5AC         | 2,524            |
| 1          | 40109                         | City of Stratford Transfer Station             | Sherman       | 5TS         | 2,714            |

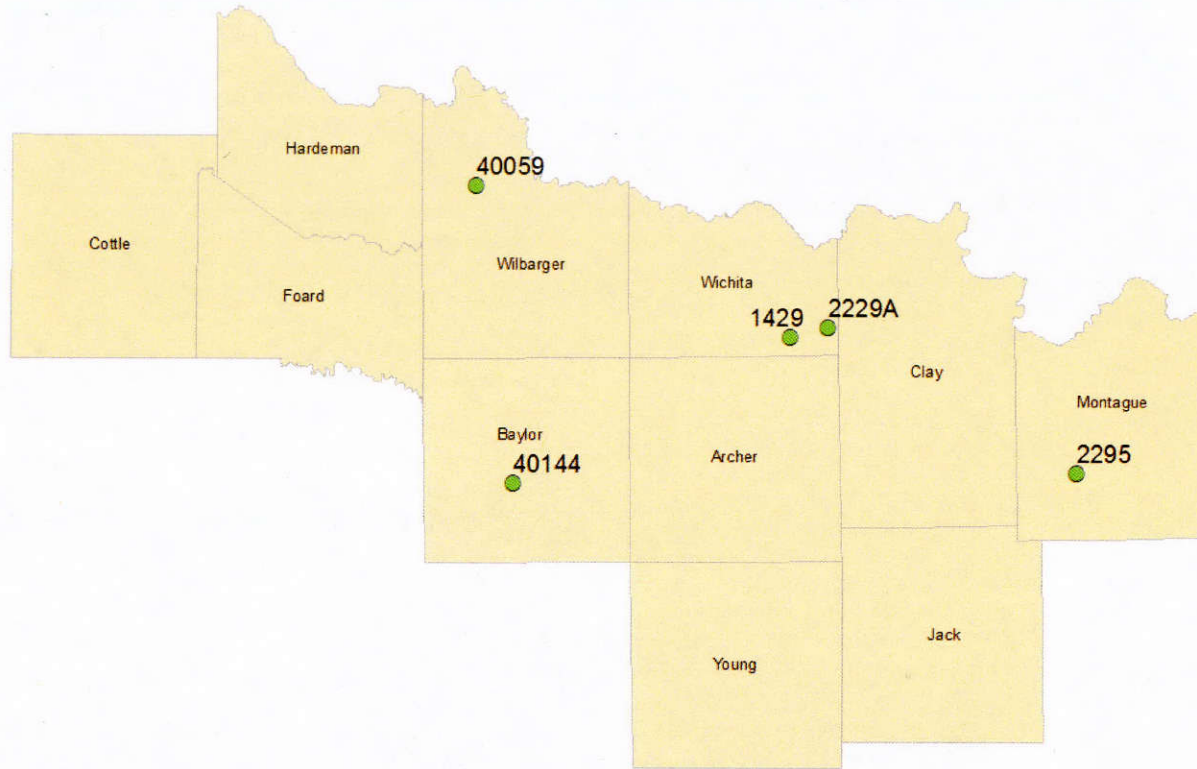
**COG 2: South Plains Association of Governments—Processing Facility Locations**



**COG 2: South Plains Association of Governments—List of Processing Facilities**

| COG | Permit or Registration | Site Name   | County  | Type | 2016 Tons |
|-----|------------------------|---|---------|------|-----------|
| 2   | 40051                  | City of Levelland Transfer Station                | Hockley | 5TS  | 78        |
| 2   | 2231                   | Southwaste Disposal South Plains Facility         | Lubbock | 5GG  | 9,310     |
| 2   | 40176                  | Caliche Canyon Transfer Station                   | Lubbock | 5TS  | 199       |
| 2   | 40279                  | Stericycle Lubbock Medical Waste Transfer Station | Lubbock | 5TS  | 1650      |

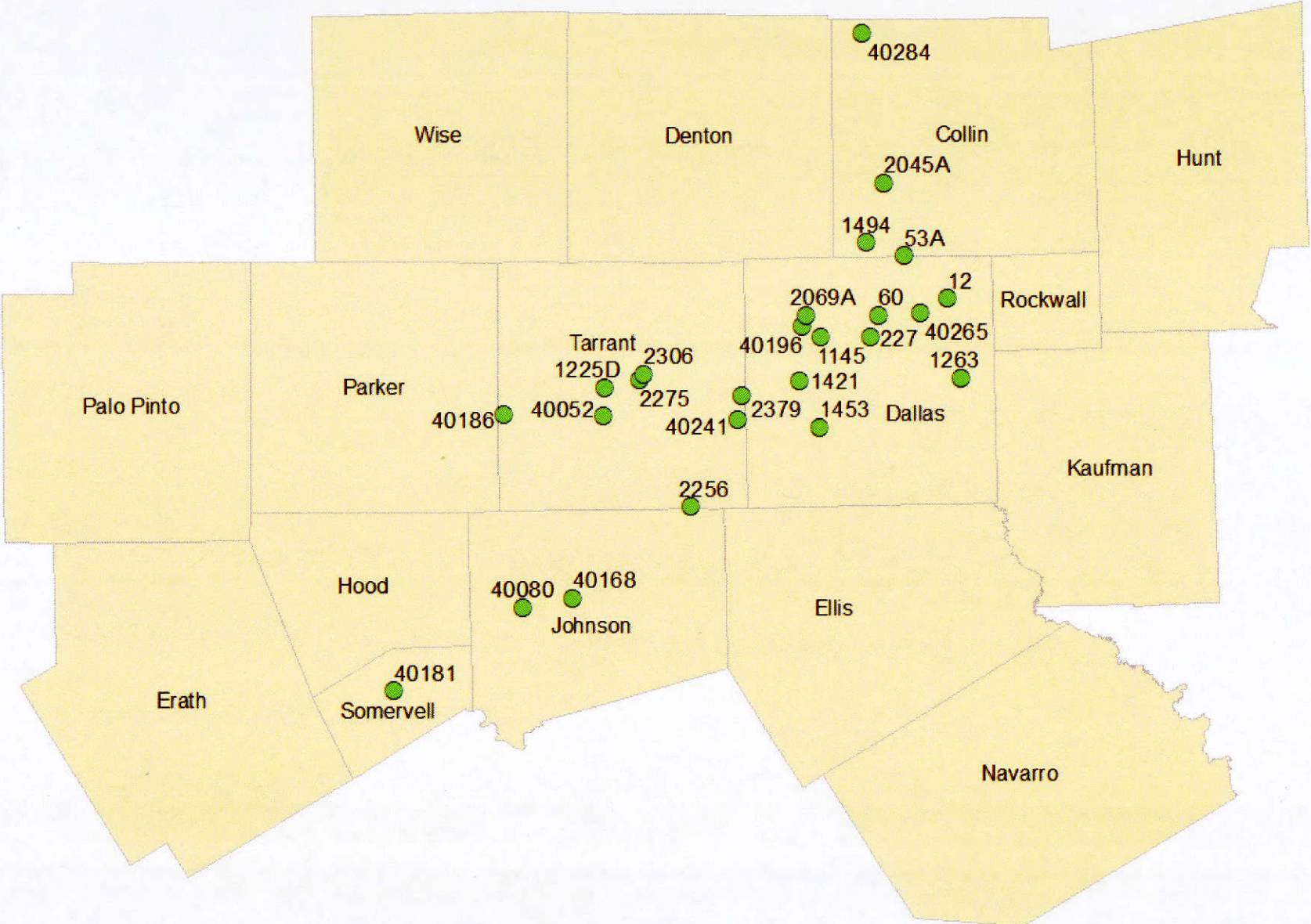
### COG 3: Nortex Regional Planning Commission—Processing Facility Locations



COG 3: Nortex Regional Planning Commission—List of Processing Facilities

| COG | Permit or Registration | Site Name                              | County    | Type | 2016 Tons |
|-----|------------------------|--|-----------|------|-----------|
| 3   | 40144                  | City of Seymour Transfer Station       | Baylor    | 5TS  | 733       |
| 3   | 2295                   | IESI Bowie Transfer Station            | Montague  | 5TS  | 52,237    |
| 3   | 1429                   | City of Wichita Falls Transfer Station | Wichita   | 5TS  | 74,363    |
| 3   | 2229A                  | IMC Liquid Waste Processing Facility   | Wichita   | 5GG  | 16,312    |
| 3   | 40059                  | City of Vernon Transfer Station        | Wilbarger | 5TS  | 17,388    |

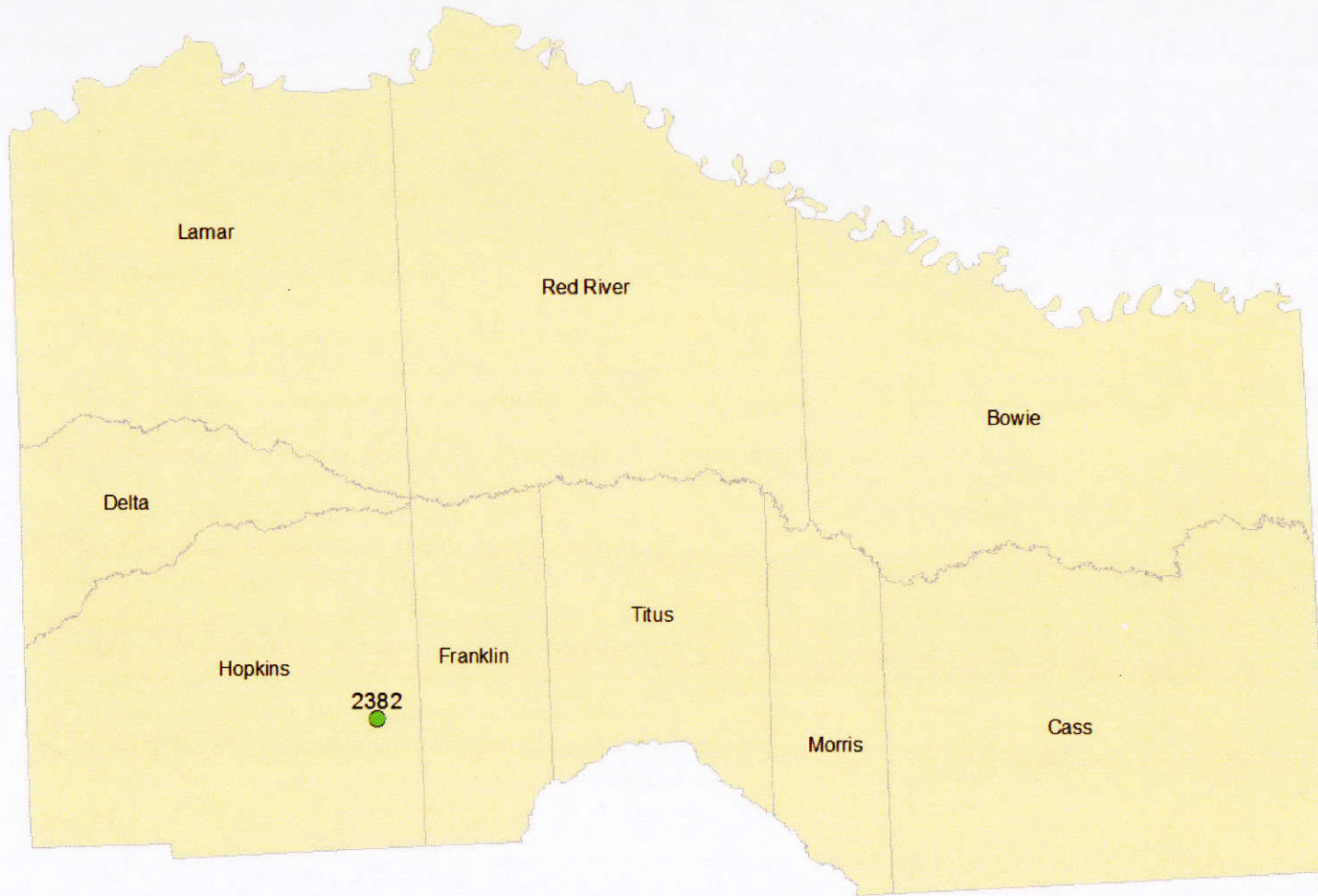
COG 4: North Central Texas Council of Governments—Processing Facility Locations



**COG 4: North Central Texas Council of Governments—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>  | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|---|---------------|-------------|------------------|
| 4          | 53A                           | Lookout Drive Transfer Station  | Collin        | 5TS         | 156,383          |
| 4          | 1494                          | Parkway Transfer Station  | Collin        | 5TS         | 120,092          |
| 4          | 2045A                         | Custer Road Transfer Station  | Collin        | 5TS         | 285,363          |
| 4          | 40284                         | Town and Country Recycling Facility   | Collin        | 5TS         | 14,734           |
| 4          | 12                            | City of Garland Transfer Station  | Dallas        | 5TS         | 124,182          |
| 4          | 60                            | City of Dallas Transfer Station - Fair Oaks Ave   | Dallas        | 5TS         | 72,737           |
| 4          | 227                           | City of University Park Transfer Station  | Dallas        | 5TS         | 12,947           |
| 4          | 1145                          | City of Dallas Transfer Station - Harry Hines Blvd  | Dallas        | 5TS         | 142,315          |
| 4          | 1263                          | City of Mesquite Transfer Station   | Dallas        | 5TS         | 53,054           |
| 4          | 1421                          | PSC Recovery Systems Liquid Waste Processing Facility   | Dallas        | 5GG         | 50,796           |
| 4          | 1453                          | City of Dallas Transfer Station - Westmoreland Rd   | Dallas        | 5TS         | 79,193           |
| 4          | 2069A                         | Liquid Environmental Solutions of Texas Dallas Facility   | Dallas        | 5GG         | 166,278          |
| 4          | 40196                         | Community Waste Disposal Transfer Station   | Dallas        | 5TS         | 58,083           |
| 4          | 40265                         | Stericycle Garland Facility   | Dallas        | 5AC         | 13,775           |
| 4          | 40080                         | Harrington Environmental Liquid Transfer Station  | Johnson       | 5TL         | 5,300            |
| 4          | 40168                         | Cleburne Transfer Station   | Johnson       | 5TS         | 62,745           |
| 4          | 40181                         | Somervell County Transfer Station   | Somervell     | 5TS         | 1,461            |
| 4          | 1225D                         | Cold Springs Liquid Waste Processing Facility   | Tarrant       | 5GG         | 66,191           |
| 4          | 2256                          | Southwaste Disposal Dallas Facility   | Tarrant       | 5GG         | 100,610          |
| 4          | 2275                          | North Texas Recycling Complex<br>(facility reported all incoming materials as diverted and no waste transferred for disposal) | Tarrant       | 5TS         | 0                |
| 4          | 2306                          | IESI Minnis Drive Transfer Station  | Tarrant       | 5TS         | 127,300          |
| 4          | 2379                          | Liquitek Arlington Liquid Waste Processing Facility   | Tarrant       | 5GG         | 69,498           |
| 4          | 40052                         | Southwest Paper Stock Transfer Station  | Tarrant       | 5TS         | 28,560           |
| 4          | 40186                         | Westside Transfer Station   | Tarrant       | 5TS         | 169,044          |
| 4          | 40241                         | Oncore Technology Facility  | Tarrant       | 5MW         | 966              |

**COG 5: Ark-Tex Council of Governments—Processing Facility Locations**

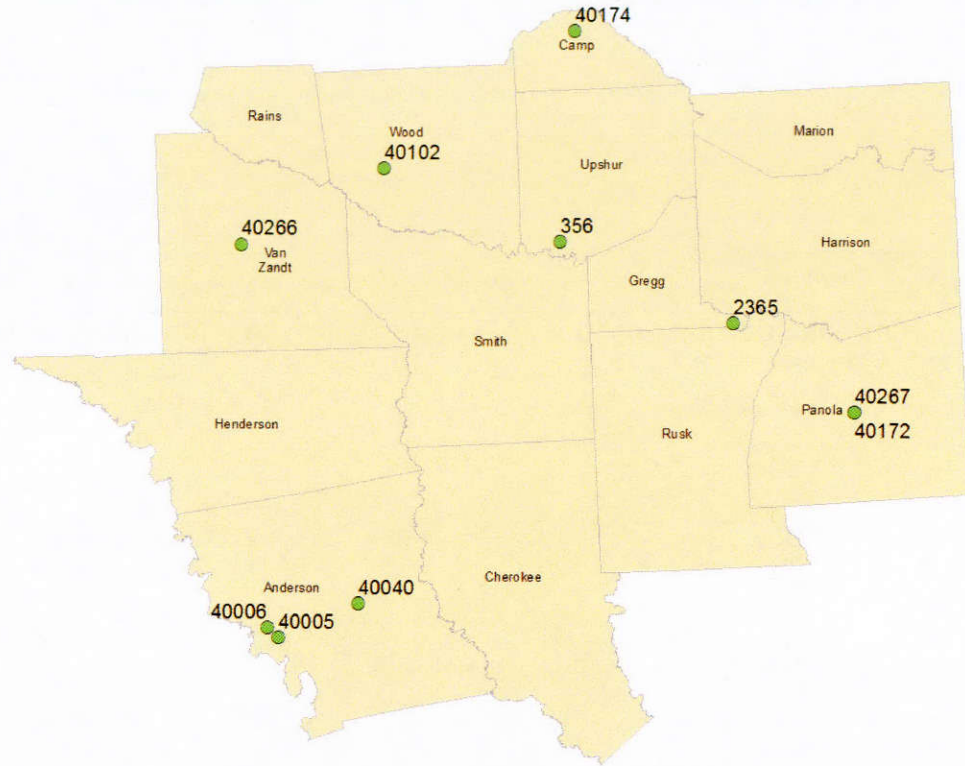


**COG 5: Ark-Tex Council of Governments—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>              | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|-------------------------------|---------------|-------------|------------------|
| 5          | 2382                          | Stouts Creek Compost Facility | Hopkins       | 5RC         | 5,278            |



## COG 6: East Texas Council of Governments—Processing Facility Locations



### COG 6: East Texas Council of Governments—List of Processing Facilities

| COG | Permit or Registration | Site Name                                 | County    | Type | 2016 Tons |
|-----|------------------------|---|-----------|------|-----------|
| 6   | 40005                  | TDCJ Beto Transfer Station                | Anderson  | 5TS  | 926       |
| 6   | 40006                  | TDCJ Coffield Transfer Station            | Anderson  | 5TS  | 1,256     |
| 6   | 40040                  | IESI Palestine Transfer Station           | Anderson  | 5TS  | 52,859    |
| 6   | 40174                  | Pittsburgh Transfer Station               | Camp      | 5TS  | 25,300    |
| 6   | 2365                   | Edwards Construction Facility             | Gregg     | 5GG  | 6,592     |
| 6   | 40172                  | City of Carthage Transfer Station         | Panola    | 5TS  | 12,464    |
| 6   | 40267                  | Sharps Environmental Services Facility    | Panola    | 5MW  | 864       |
| 6   | 356                    | Vital Earth Resources Composting Facility | Upshur    | 5RC  | 2,094     |
| 6   | 40266                  | City of Canton Transfer Station           | Van Zandt | 5TS  | 16,623    |
| 6   | 40102                  | Upper Sabine Valley SWMD Transfer Station | Wood      | 5TS  | 11,983    |

**COG 7: West Central Texas Council of Governments—Processing Facility Locations**



**COG 7: West Central Texas Council of Governments—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b>                       | <b>Site Name</b> | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|---|------------------|---------------|-------------|------------------|
| 7          | No Processing Facilities in COG Region 7 in FY 2016 |                  |               |             |                  |

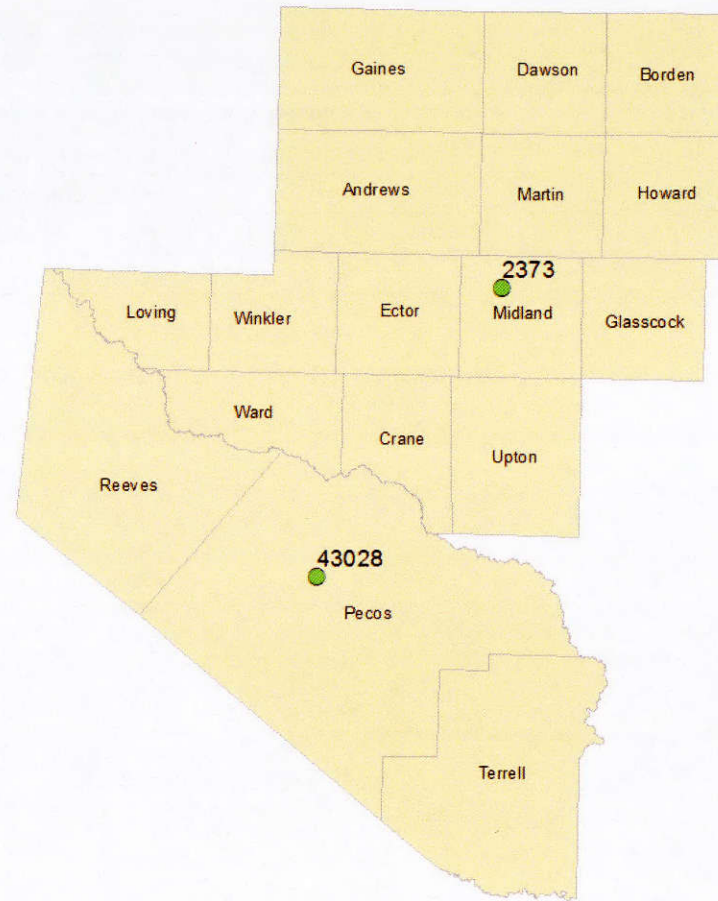
**COG 8: Rio Grande Council of Governments—Processing Facility Locations**



**COG 8: Rio Grande Council of Governments—List of Processing Facilities**

| COG | Permit or Registration | Site Name  | County   | Type | 2016 Tons |
|-----|------------------------|--|----------|------|-----------|
| 8   | 728                    | City of El Paso Delta Transfer Station                   | El Paso  | 5TS  | 948       |
| 8   | 2355                   | Liquid Environmental Solutions of Texas El Paso Facility | El Paso  | 5GG  | 16,447    |
| 8   | 40237                  | El Paso C&D Recycling Plant                              | El Paso  | 5RR  | 2,072     |
| 8   | 40261                  | Stericycle El Paso Medical Waste Transfer Station        | El Paso  | 5TS  | 1,560     |
| 8   | 40262                  | Mediwest Medical Waste Treatment Facility                | El Paso  | 5AC  | 94        |
| 8   | 42038                  | Fort Bliss Bio Cell Facility                             | El Paso  | 5RC  | 174       |
| 8   | 42036                  | Cerro Alto Monofill Sludge                               | Hudspeth | 5RC  | 207       |

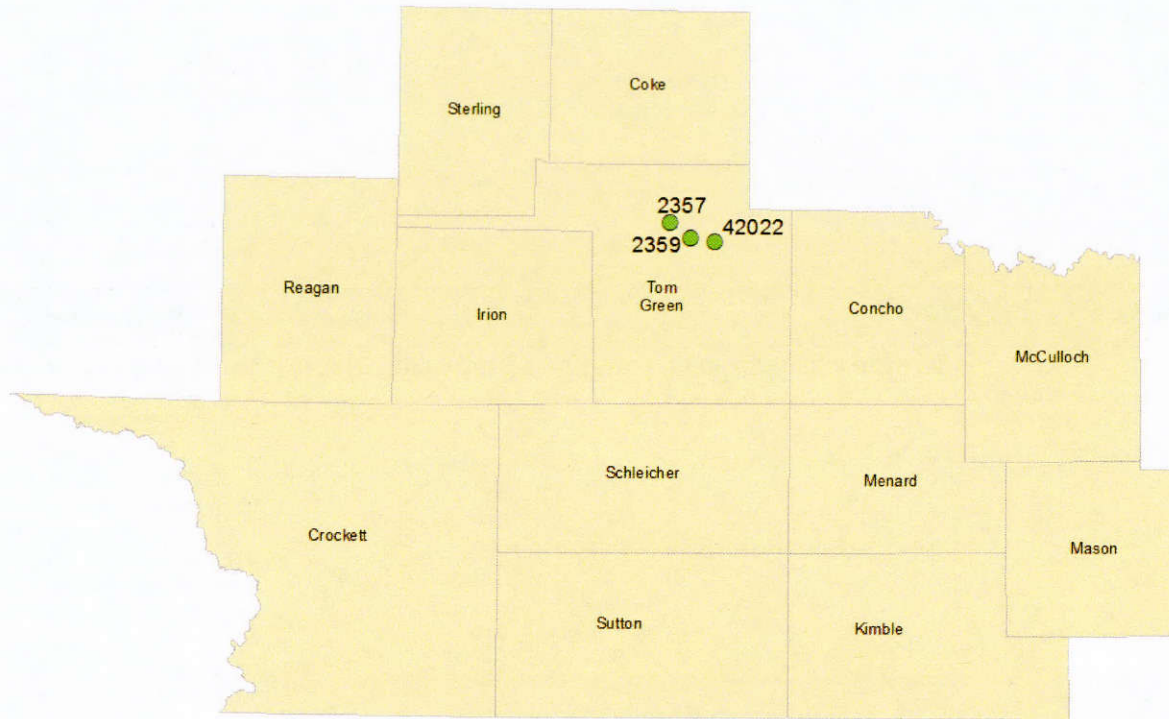
**COG 9: Permian Basin Regional Planning Commission—Processing Facility Locations**



**COG 9: Permian Basin Regional Planning Commission—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>                                  | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|---|---------------|-------------|------------------|
| 9          | 2373                          | Affordable Dewatering Service                     | Midland       | 5GG         | 102,097          |
| 9          | 43028                         | City of Stockton Liquid Waste Processing Facility | Pecos         | 5GG         | 1,203            |

## COG 10: Concho Valley Council of Governments—Processing Facility Locations



**COG 10: Concho Valley Council of Governments—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>                                  | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|---|---------------|-------------|------------------|
| 10         | 2357                          | San Angelo Pro Pump Dewatering & Compost Facility | Tom Green     | 5RC         | 3,381            |
| 10         | 2359                          | D's Recycling Facility                            | Tom Green     | 5RC         | 959              |
| 10         | 42022                         | Kickapoo Composting Facility                      | Tom Green     | 5RC         | 1,583            |

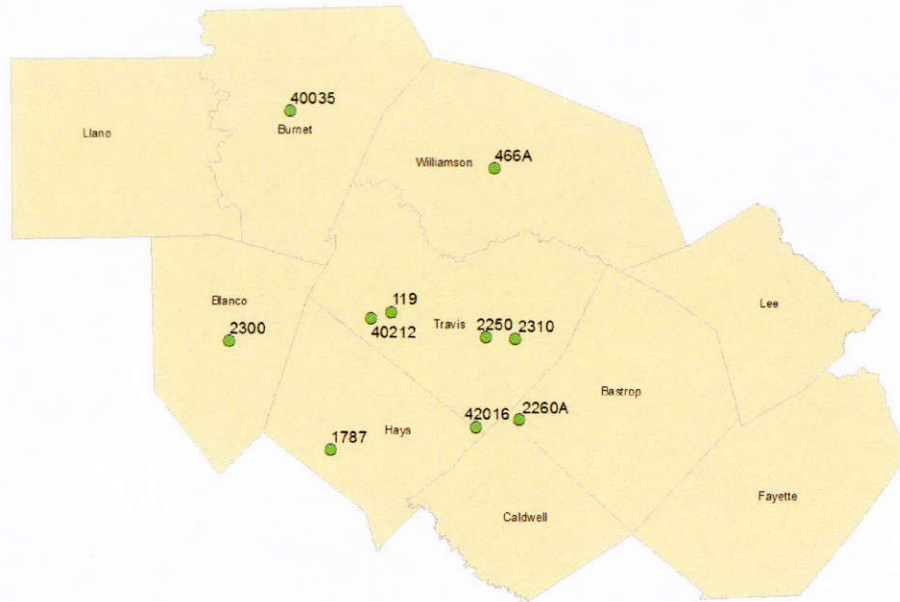
**COG 11: Heart of Texas Council of Governments—Processing Facility Locations**



**COG 11: Heart of Texas Council of Governments—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b>                        | <b>Site Name</b> | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|--|------------------|---------------|-------------|------------------|
| 11         | No Processing Facilities in COG Region 11 in FY 2016 |                  |               |             |                  |

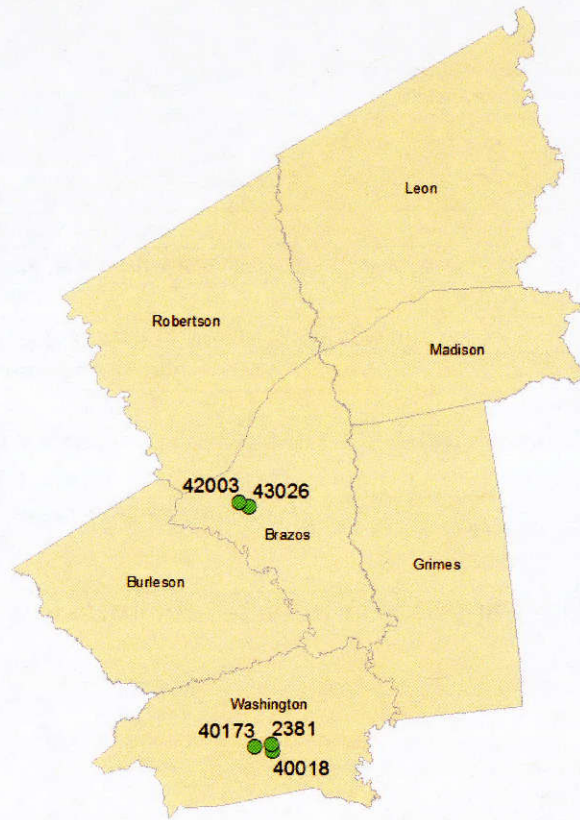
## COG 12: Capital Area Council of Governments—Processing Facility Locations



### COG 12: Capital Area Council of Governments—List of Processing Facilities

| COG | Permit or Registration | Site Name   | County     | Type | 2016 Tons |
|-----|------------------------|---|------------|------|-----------|
| 12  | 2260A                  | Stericycle Medical Waste Processing Facility            | Bastrop    | 5AC  | 7,664     |
| 12  | 2300                   | IESI Blanco County Transfer Station                     | Blanco     | 5TS  | 24,198    |
| 12  | 40035                  | BFI Burnet Transfer Station                             | Burnet     | 5TS  | 24,792    |
| 12  | 1787                   | Hays County Transfer Station                            | Hays       | 5TS  | 2,161     |
| 12  | 119                    | Texas Disposal System Eco Depot                         | Travis     | 5TS  | 5,562     |
| 12  | 2250                   | Liquid Environmental Solutions of Texas Austin Facility | Travis     | 5GG  | 69,571    |
| 12  | 2310                   | J-V Dirt + Loam Facility                                | Travis     | 5RC  | 130,565   |
| 12  | 40212                  | Tom Dye Liquid Waste Transfer Station                   | Travis     | 5TL  | 412       |
| 12  | 42016                  | Texas Organic Recovery Facility                         | Travis     | 5RC  | 15,169    |
| 12  | 466A                   | Georgetown Transfer Station                             | Williamson | 5TS  | 70,049    |

**COG 13: Brazos Valley Council of Governments—Processing Facility Locations**

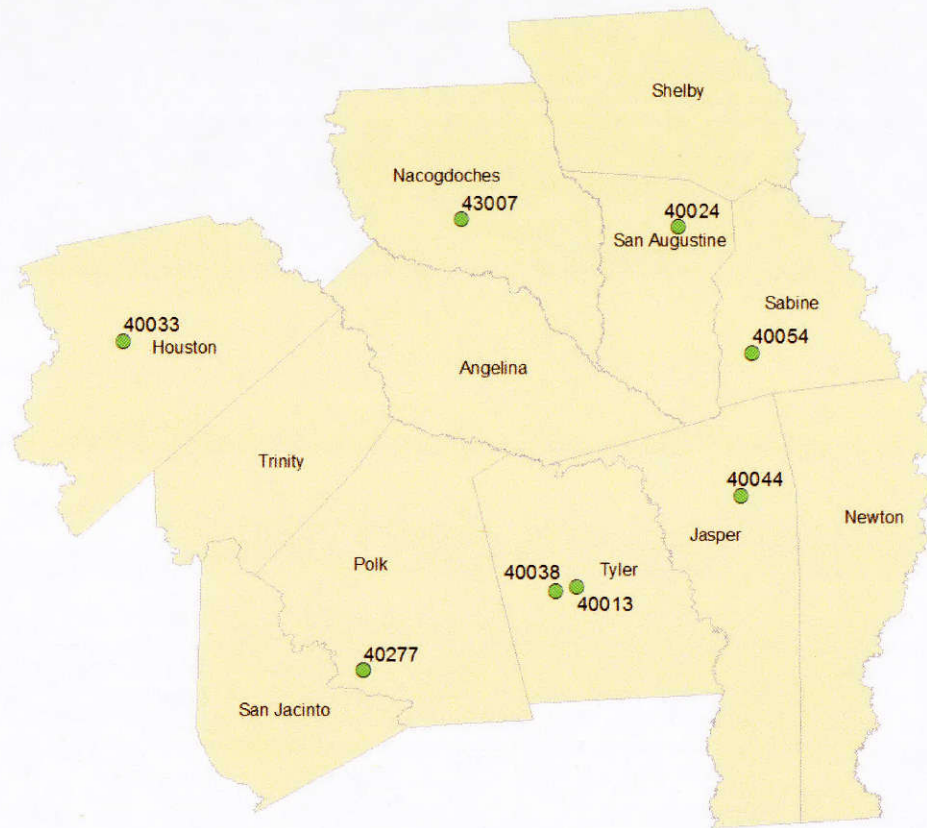




**COG 13: Brazos Valley Council of Governments—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>                             | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|--|---------------|-------------|------------------|
| 13         | 42003                         | Bryan Compost Facility                       | Brazos        | 5RC         | 11,692           |
| 13         | 43026                         | Still Creek Liquid Waste Processing Facility | Brazos        | 5GG         | 7,847            |
| 13         | 2381                          | L&G Environmental                            | Washington    | 5GG         | 5,462            |
| 13         | 40018                         | City of Brenham Transfer Station             | Washington    | 5TS         | 30,032           |
| 13         | 40173                         | Washington County Transfer Station           | Washington    | 5TS         | 38,879           |

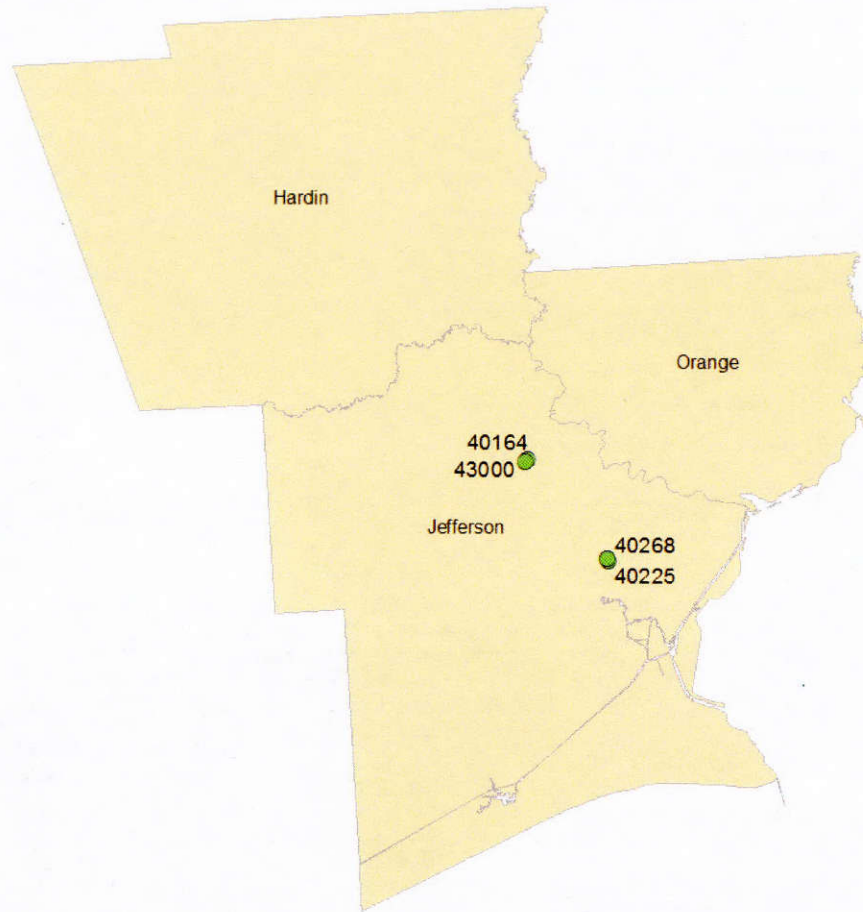
## COG 14: Deep East Texas Council of Governments—Processing Facility Locations



**COG 14: Deep East Texas Council of Governments—List of Processing Facilities**

| COG | Permit or Registration | Site Name                                     | County        | Type | 2016 Tons |
|-----|------------------------|---|---------------|------|-----------|
| 14  | 40033                  | Hutto Garbage Service Transfer Station        | Houston       | 5TS  | 792       |
| 14  | 40044                  | City of Jasper Transfer Station               | Jasper        | 5TS  | 20,000    |
| 14  | 43007                  | City of Nacogdoches Grease Treatment Facility | Nacogdoches   | 5GG  | 2,352     |
| 14  | 40277                  | Pro Star Waste Transfer Station               | Polk          | 5TS  | 2,160     |
| 14  | 40054                  | Don General Services Transfer Station         | Sabine        | 5TS  | 3,471     |
| 14  | 40024                  | City of San Augustine Transfer Station        | San Augustine | 5TS  | 2,438     |
| 14  | 40013                  | City of Woodville Transfer Station            | Tyler         | 5TS  | 3,570     |
| 14  | 40038                  | Tyler County Transfer Station                 | Tyler         | 5TS  | 1,520     |

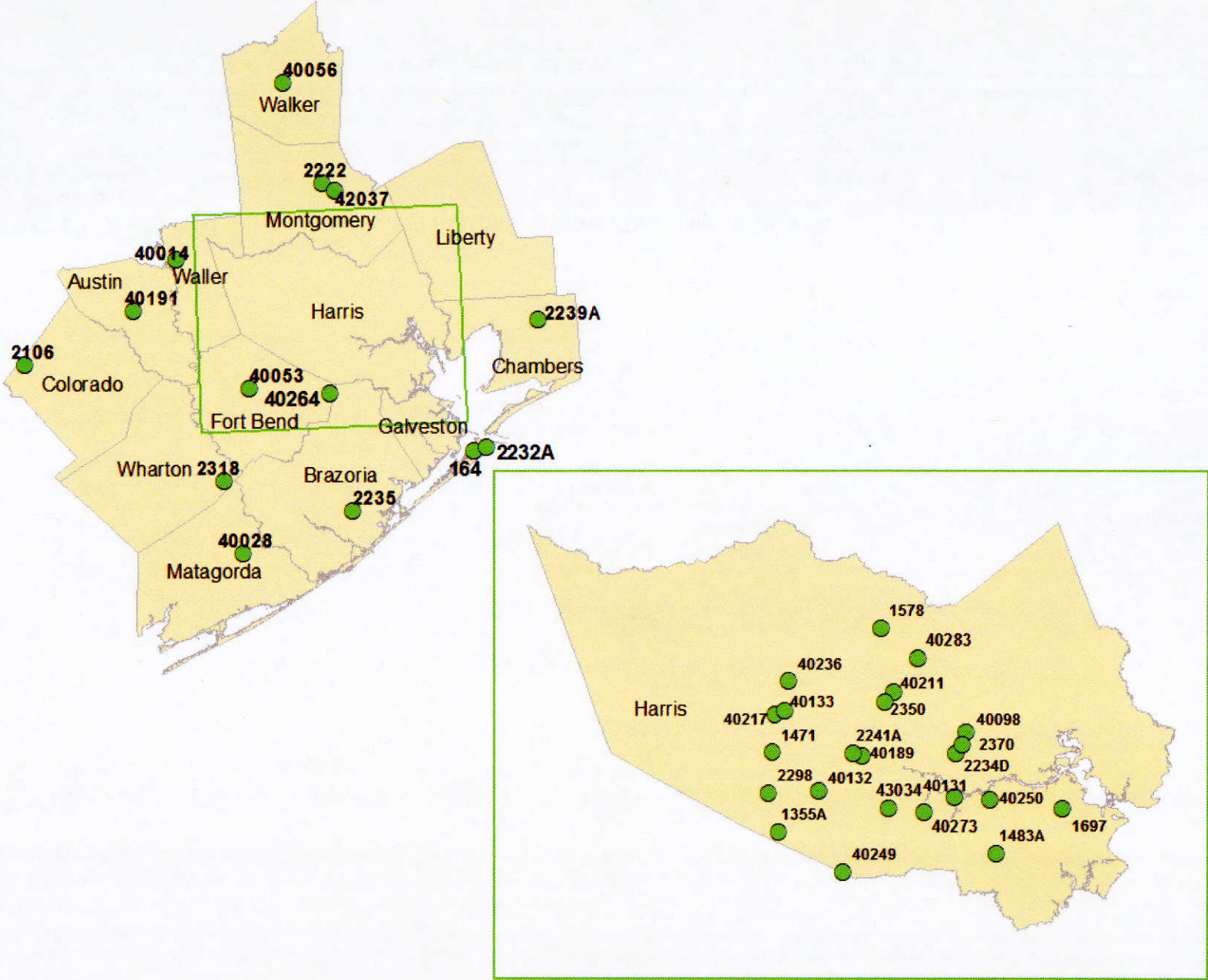
**COG 15: South East Texas Regional Planning Commission—Processing Facility Locations**



**COG 15: South East Texas Regional Planning Commission—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>   | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|--|---------------|-------------|------------------|
| 15         | 40164                         | JTB Recycling Liquid Waste Transfer Station                  | Jefferson     | 5TL         | 370              |
| 15         | 40225                         | Triangle Waste Solutions Transfer Station                    | Jefferson     | 5TS         | 29,295           |
| 15         | 40268                         | Biomedical Waste Solutions Medical Waste Processing Facility | Jefferson     | 5AC         | 2,970            |
| 15         | 43000                         | JTB Recycling Liquid Waste Processing Facility               | Jefferson     | 5GG         | 5,053            |

COG 16: Houston-Galveston Area Council—Processing Facility Locations

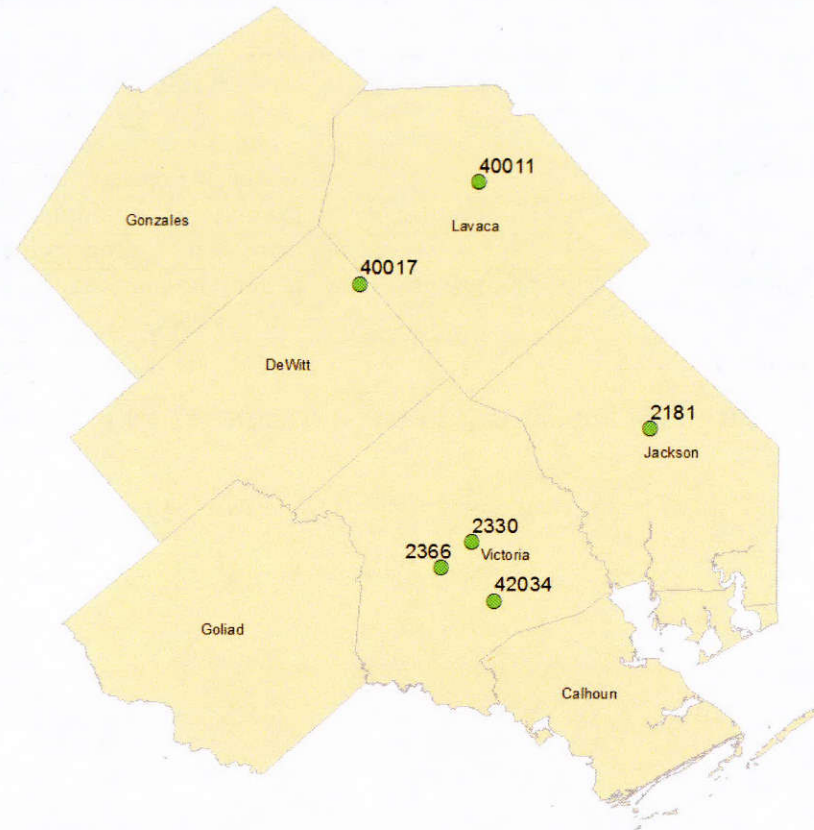


**COG 16: Houston-Galveston Area Council List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>   | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|--|---------------|-------------|------------------|
| 16         | 40191                         | Country Waste Transfer Station   | Austin        | 5TS         | 6,540            |
| 16         | 2235                          | Brazoria County Recycling Center (facility reported all incoming materials as diverted and no waste transferred for disposal)                      | Brazoria      | 5RR         | 0                |
| 16         | 2239A                         | Gulfwest Waste Solutions   | Chambers      | 5WI         | 2,888            |
| 16         | 2106                          | City of Weimar Transfer Station  | Colorado      | 5TS         | 37,322           |
| 16         | 40053                         | Best Septic Tank Cleaning Liquid Transfer Station  | Fort Bend     | 5TL         | 1,241            |
| 16         | 40264                         | Stericycle Fresno Transfer Station   | Fort Bend     | 5TS         | 3,328            |
| 16         | 164                           | City of Galveston Transfer Station   | Galveston     | 5TS         | 94,891           |
| 16         | 2232A                         | UTMB Galveston Solid Waste Incineration Facility   | Galveston     | 5WI         | 599              |
| 16         | 1355A                         | Ruffino Hills Transfer Station   | Harris        | 5TS         | 407,809          |
| 16         | 1471                          | Sam Houston Recycling Center   | Harris        | 5TS         | 151,202          |
| 16         | 1483A                         | Koenig Street Transfer Station   | Harris        | 5TS         | 145,461          |
| 16         | 1578                          | Hardy Road Transfer Station  | Harris        | 5TS         | 440,999          |
| 16         | 1697                          | City of Deer Park Transfer Station   | Harris        | 5TS         | 18,254           |
| 16         | 2234D                         | Liquid Environmental Solutions of Texas Houston Facility   | Harris        | 5GG         | 295,601          |
| 16         | 2241A                         | Southwaste Disposal Hurst Facility   | Harris        | 5GG         | 129,670          |
| 16         | 2298                          | B R Perrin Plant   | Harris        | 5GG         | 303              |
| 16         | 2350                          | Big K Environmental Facility   | Harris        | 5GG         | 101,025          |
| 16         | 2370                          | Wastewater Residuals Management  | Harris        | 5GG         | 78,547           |
| 16         | 40098                         | BFI Houston Resource Renewal Complex Transfer Station (facility reported all incoming materials as diverted and no waste transferred for disposal) | Harris        | 5TS         | 0                |
| 16         | 40131                         | Houston Southeast Transfer Station   | Harris        | 5TS         | 229,165          |
| 16         | 40132                         | Houston Southwest Transfer Station   | Harris        | 5TS         | 271,317          |
| 16         | 40133                         | Houston Northwest Transfer Station   | Harris        | 5TS         | 220,392          |
| 16         | 40189                         | Egbert Transfer Station  | Harris        | 5TS         | 66,579           |
| 16         | 40211                         | Sprint Recycling Center - Northeast  | Harris        | 5TS         | 20,450           |
| 16         | 40217                         | Tanner Road Transfer Station   | Harris        | 5TS         | 67,998           |
| 16         | 40236                         | Excell Disposal Waste Containers   | Harris        | 5TS         | 14,623           |
| 16         | 40249                         | Lone Star Recycling & Disposal Facility Transfer Station   | Harris        | 5TS         | 262,705          |
| 16         | 40250                         | Lone Star SRD Shredding Recycling Disposal Facility  | Harris        | 5AC         | 143              |
| 16         | 40273                         | Excel Medical Waste Facility   | Harris        | 5AC         | 875              |

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>   | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|--|---------------|-------------|------------------|
| 16         | 40283                         | Daniels Houston Facility   | Harris        | 5MW         | 187              |
| 16         | 43034                         | Liquid Environmental Solutions of Texas Houston Burkett Facility | Harris        | 5GG         | 39,069           |
| 16         | 40028                         | Matagorda County Transfer Station                                | Matagorda     | 5TS         | 6,629            |
| 16         | 2222                          | Stericycle Conroe Facility                                       | Montgomery    | 5AC         | 12,462           |
| 16         | 42037                         | New Earth Conroe Facility  | Montgomery    | 5RC         | 482,450          |
| 16         | 40056                         | City of Huntsville Transfer Station                              | Walker        | 5TS         | 42,428           |
| 16         | 40014                         | City of Hempstead Transfer Station                               | Waller        | 5TS         | 68               |
| 16         | 2318                          | Don Tol Compost Facility   | Wharton       | 5RC         | 3,852            |

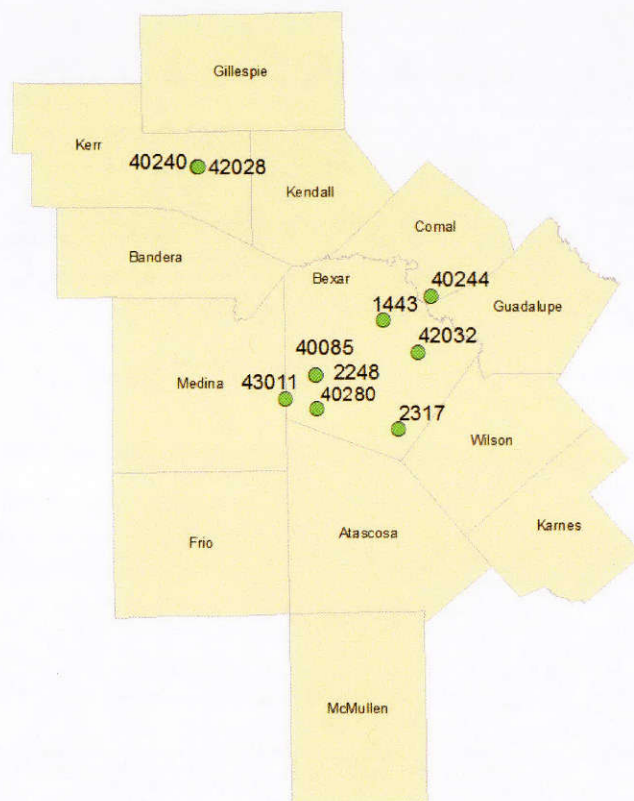
## COG 17: Golden Crescent Regional Planning Commission—Processing Facility Locations



COG 17: Golden Crescent Regional Planning Commission—List of Processing Facilities

| COG | Permit or Registration | Site Name   | County   | Type | 2016 Tons |
|-----|------------------------|---|----------|------|-----------|
| 17  | 40017                  | City of Yoakum Transfer Station                   | Dewitt   | 5TS  | 28,750    |
| 17  | 2181                   | Jackson County Transfer Station                   | Jackson  | 5TS  | 1,405     |
| 17  | 40011                  | City of Hallettsville Transfer Station            | Lavaca   | 5TS  | 547       |
| 17  | 2330                   | Victoria Environmental Liquid Processing Facility | Victoria | 5GG  | 24,943    |
| 17  | 2366                   | Victoria Regional WWTP Grit Trap Waste Facility   | Victoria | 5GG  | 919       |
| 17  | 42034                  | Victoria Compost Facility                         | Victoria | 5RC  | 23,513    |

## COG 18: Alamo Area Council of Governments—Processing Facility Locations



**COG 18: Alamo Area Council of Governments—List of Processing Facilities**

| COG | Permit or Registration | Site Name  | County | Type | 2016 Tons |
|-----|------------------------|--|--------|------|-----------|
| 18  | 1443                   | City of San Antonio Starcrest Transfer Station               | Bexar  | 5TS  | 152,818   |
| 18  | 2248                   | Liquid Environmental Solutions of Texas San Antonio Facility | Bexar  | 5GG  | 32,857    |
| 18  | 2317                   | Southwaste Disposal San Antonio Facility                     | Bexar  | 5RC  | 52,835    |
| 18  | 40085                  | Liquid Environmental Solutions of Texas San Antonio Facility | Bexar  | 5TS  | 6,254     |
| 18  | 40280                  | Stericycle San Antonio Facility                              | Bexar  | 5TS  | 3,487     |
| 18  | 42032                  | New Earth San Antonio Facility                               | Bexar  | 5RC  | 81,000    |
| 18  | 40244                  | Medsharps Schertz Facility                                   | Comal  | 5AC  | 3,118     |
| 18  | 40240                  | City of Kerrville Transfer Station                           | Kerr   | 5TS  | 64,028    |
| 18  | 42028                  | City of Kerrville Composting Facility                        | Kerr   | 5RC  | 18,030    |
| 18  | 43011                  | City of LaCoste Liquid Processing Facility                   | Medina | 5GG  | 67,471    |



## COG 19: South Texas Development Council—Processing Facility Locations



COG 19: South Texas Development Council—List of Processing Facilities

| COG | Permit or Registration | Site Name                        | County   | Type | 2016 Tons |
|-----|------------------------|----------------------------------|----------|------|-----------|
| 19  | 40103                  | Jim Hogg County Transfer Station | Jim Hogg | 5TS  | 8,550     |
| 19  | 40238                  | Starr County Transfer Station    | Starr    | 5TS  | 27,302    |

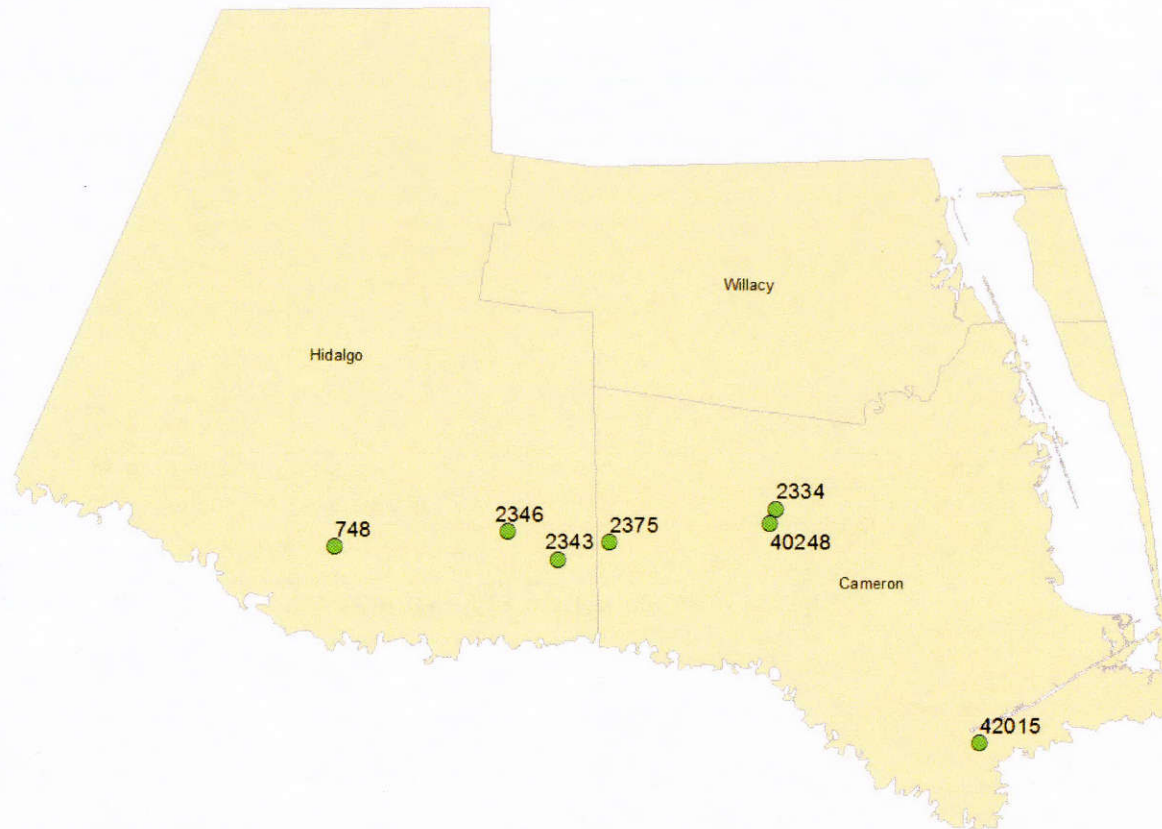
**COG 20: Coastal Bend council of Governments—Processing Facility Locations**



**COG 20: Coastal Bend Council of Governments—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>                          | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|---|---------------|-------------|------------------|
| 20         | 40027                         | Aransas County Transfer Station           | Aransas       | 5TS         | 5,267            |
| 20         | 40002                         | Live Oak County Transfer Station          | Live Oak      | 5TS         | 990              |
| 20         | 40228                         | JC Elliott Transfer Station               | Nueces        | 5TS         | 80,824           |
| 20         | 2319                          | Texas Sludge Disposal Composting Facility | San Patricio  | 5RC         | 16,997           |

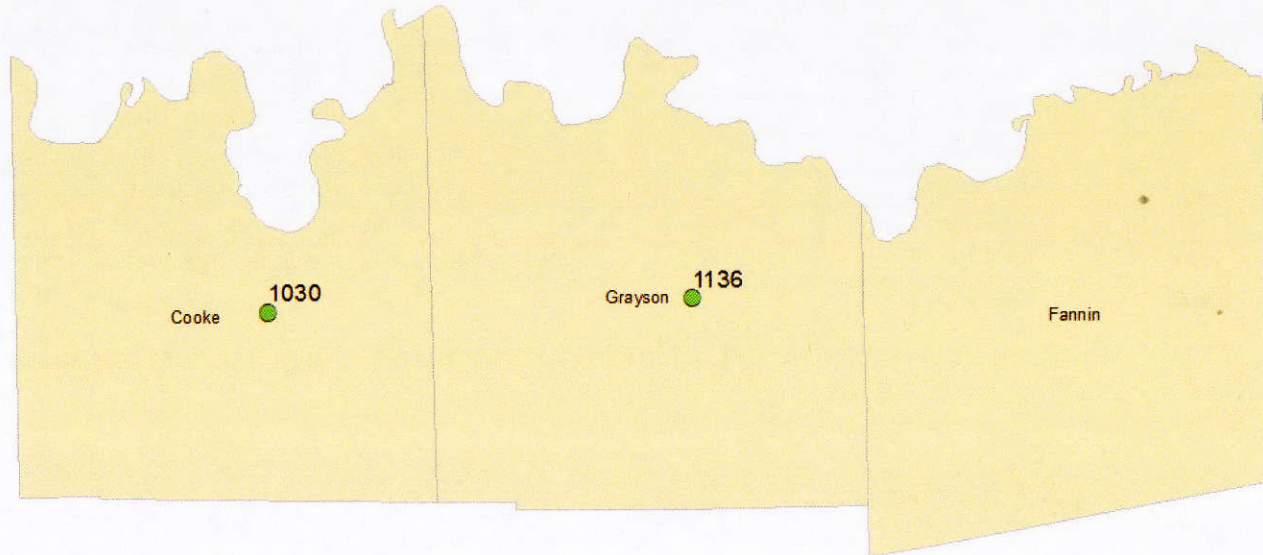
## COG 21: Lower Rio Grande Valley Development Council—Processing Facility Locations



### COG 21: Lower Rio Grande Valley Development Council—List of Processing Facilities

| COG | Permit or Registration | Site Name  | County  | Type | 2016 Tons |
|-----|------------------------|--|---------|------|-----------|
| 21  | 2334                   | Stericycle Harlingen Processing Facility                 | Cameron | 5MW  | 3,209     |
| 21  | 2375                   | La Feria Transfer Station                                | Cameron | 5TS  | 150,165   |
| 21  | 40248                  | City of Harlingen Transfer Station                       | Cameron | 5TS  | 69,296    |
| 21  | 42015                  | City of Brownsville Composting Facility                  | Cameron | 5RC  | 24,985    |
| 21  | 748                    | Pharr Transfer Station                                   | Hidalgo | 5TS  | 30,248    |
| 21  | 2343                   | Valley Dewatering Services                               | Hidalgo | 5GG  | 21,418    |
| 21  | 2346                   | Liquid Environmental Solutions of Texas Weslaco Facility | Hidalgo | 5GG  | 18,134    |

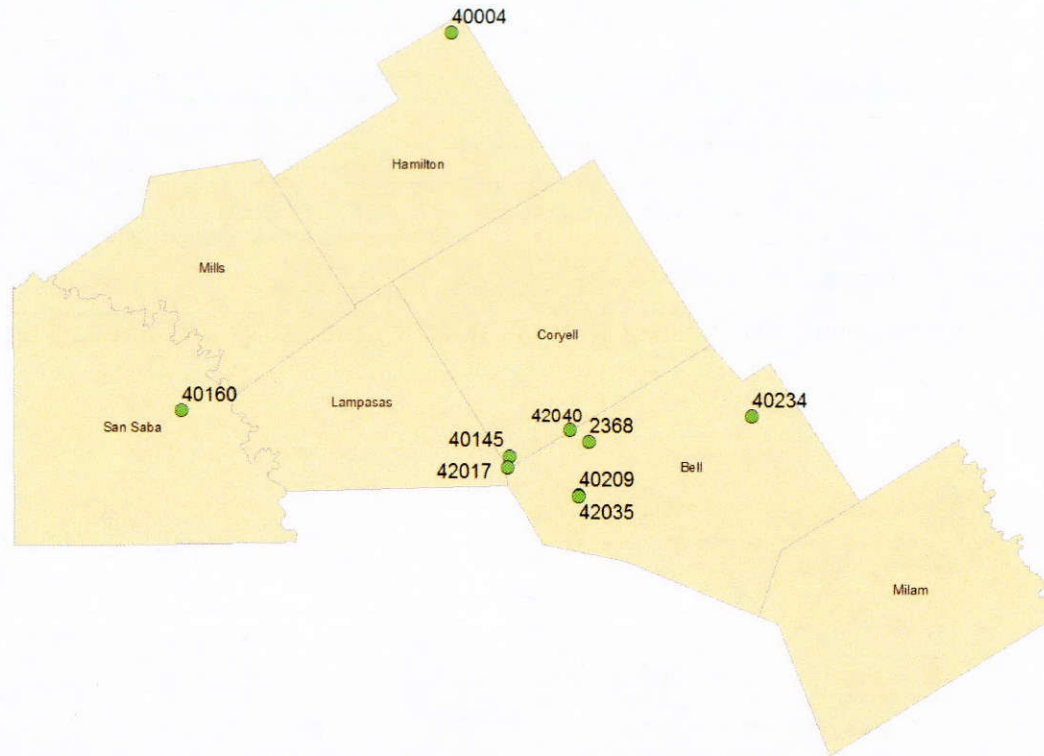
**COG 22: Texoma Council of Governments—Processing Facility Locations**



**COG 22: Texoma Council of Governments—List of Processing Facilities**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>                     | <b>County</b> | <b>Type</b> | <b>2016 Tons</b> |
|------------|-------------------------------|--------------------------------------|---------------|-------------|------------------|
| 22         | 1030                          | City of Gainesville Transfer Station | Cooke         | 5TS         | 29,530           |
| 22         | 1136                          | City of Sherman Transfer             | Grayson       | 5TS         | 11,041           |

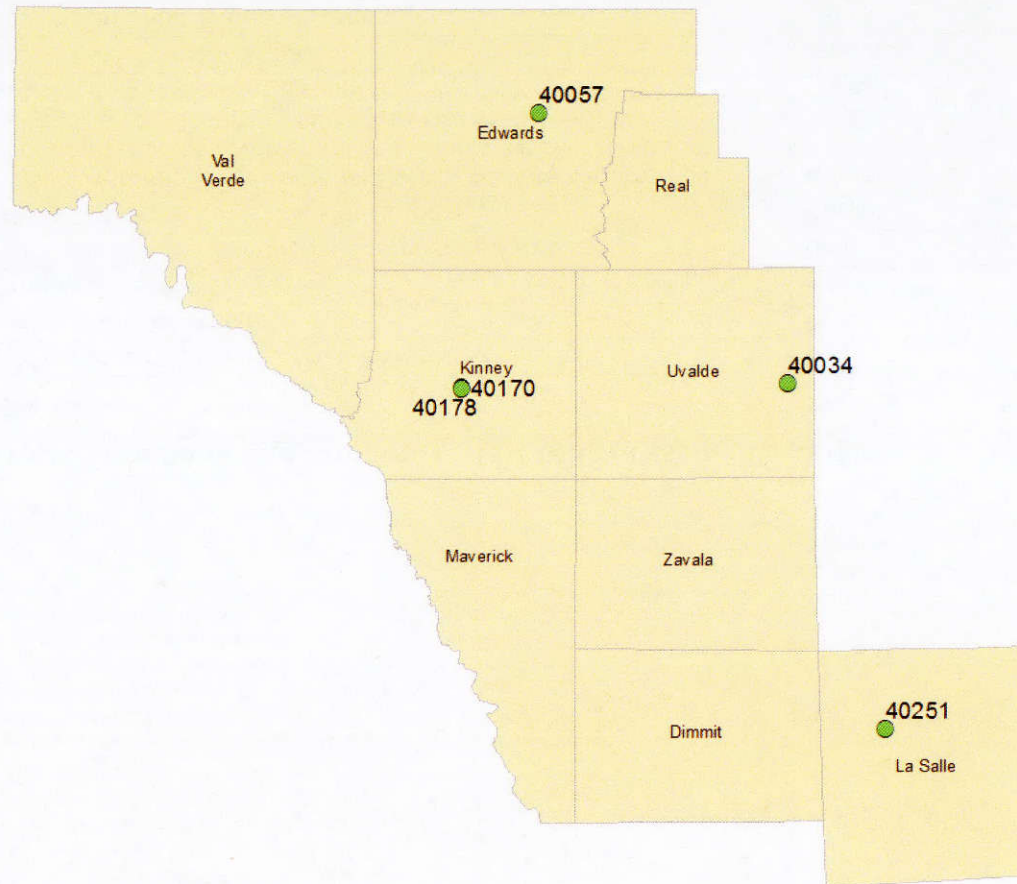
## COG 23: Central Texas Council of Governments—Processing Facility Locations



### COG 23: Central Texas Council of Governments—List of Processing Facilities

| COG | Permit or Registration | Site Name  | County   | Type | 2016 Tons |
|-----|------------------------|--|----------|------|-----------|
| 23  | 2368                   | S & M Vacuum & Liquid Waste Processing Facility  | Bell     | 5GG  | 4,131     |
| 23  | 40209                  | Killeen Transfer Station   | Bell     | 5TS  | 100,718   |
| 23  | 40234                  | Stericycle Temple  | Bell     | 5TS  | 429       |
| 23  | 42035                  | Bell County WCID 1 Regional Compost Facility   | Bell     | 5RC  | 7,464     |
| 23  | 40145                  | City of Copperas Cove Transfer Station   | Coryell  | 5TS  | 22,997    |
| 23  | 42017                  | City of Copperas Cove Compost Facility (facility reported all incoming brush as diverted to Bell County WCID 1 Compost facility; no composting occurred on-site in 2016) | Coryell  | 5RC  | 0         |
| 23  | 42040                  | Fort Hood Biotreatment Facility  | Coryell  | 5RC  | 587       |
| 23  | 40004                  | City of Hico Transfer Station  | Hamilton | 5TS  | 32        |
| 23  | 40160                  | City of San Saba Transfer Station  | San Saba | 5TS  | 3,754     |

**COG 24: Middle Rio Grande Development Council—Processing Facility Locations**

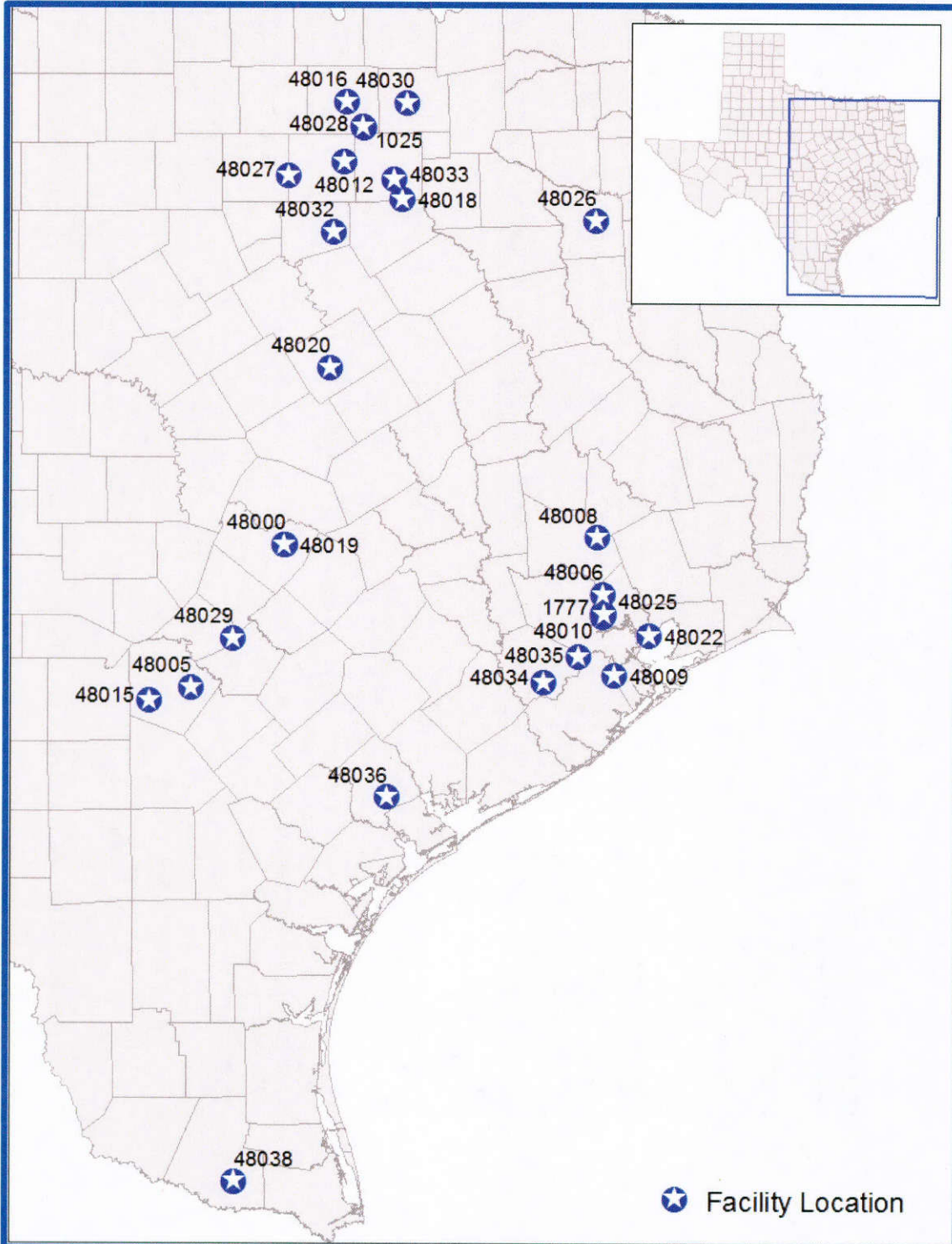


**COG 24: Middle Rio Grande Development Council—List of Processing Facilities**

| COG | Permit or Registration | Site Name                              | County   | Type | 2016 Tons |
|-----|------------------------|--|----------|------|-----------|
| 24  | 40057                  | City of Rock Springs Transfer Station  | Edwards  | 5TS  | 841       |
| 24  | 40170                  | City of Brackettville Transfer Station | Kinney   | 5TS  | 3,640     |
| 24  | 40178                  | Fort Clark Springs Transfer Station    | Kinney   | 5TS  | 163       |
| 24  | 40251                  | City of Cotulla Transfer Station       | La Salle | 5TS  | 42        |
| 24  | 40034                  | City of Sabinas Transfer Station       | Uvalde   | 5TS  | 125       |

# Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use

Locations of Facilities Recovering Landfill Gas for Beneficial Use



The table included in this section represents the active gas recovery (Type 9GR) facilities data reported for 2016. The table is organized by COG Region and county. All values are rounded to the nearest whole number.

**Key for Landfill Gas Recovery Facilities Data Table**

| <b>Abbreviation/Column Heading</b> | <b>Description</b>   |
|------------------------------------|--|
| LFG                                | Landfill Gas   |
| LFGTE                              | Landfill Gas to Energy   |
| Landfill                           | Permit number of the landfill from which the LFGTE facility recovers gas     |
| Gas Processed                      | Estimated gas processed at the facility in fiscal year 2016                  |
| Gas Distributed Off-site           | Estimated gas distributed off-site from the facility in fiscal year 2016     |
| Power Generated & Sold             | Estimated gas generated and sold by the facility in fiscal year 2016         |
| Power Generated & Used             | Estimated gas generated and used on-site by the facility in fiscal year 2016 |
| ft <sup>3</sup>                    | standard cubic feet  |
| kWh                                | kilowatt hour  |

**List of Facilities Recovering Landfill Gas for Beneficial Use**

| <b>COG</b> | <b>Permit or Registration</b> | <b>Site Name</b>                       | <b>County</b>    | <b>Landfill</b> | <b>Gas Processed (ft<sup>3</sup>)</b> | <b>Gas Distributed Off-site (ft<sup>3</sup>)</b> | <b>Power Generated and Sold (kWh)</b> | <b>Power Generated and Used On-Site (kWh)</b> |
|------------|-------------------------------|--|------------------|-----------------|---------------------------------------|--|---------------------------------------|---|
| 4          | 48030                         | McKinney Landfill                      | Collin           | 568A            | 0                                     | 0  | 9,338,015                             | 9,464,158                                     |
| 4          | 48018                         | Waste Management Skyline Landfill      | Dallas and Ellis | 42D             | 1,029,004,000                         | 0  | 48,503,059                            | 1,908,121                                     |
| 4          | 48033                         | McCommas Bluff LFG Processing Facility | Dallas           | 62              | 4,239,551,000                         | 2,172,772,000                                    | 0                                     | 0   |
| 4          | 1025B                         | DFW Recycling and Disposal Facility    | Denton           | 1025B           | 2,316,030,890                         | 0  | 2,183,602                             | 90,884,965                                    |



| COG | Permit or Registration | Site Name                                   | County     | Landfill | Gas Processed (ft <sup>3</sup> ) | Gas Distributed Off-site (ft <sup>3</sup> ) | Power Generated and Sold (kWh) | Power Generated and Used On-Site (kWh) |
|-----|------------------------|---|------------|----------|----------------------------------|---|--------------------------------|--|
| 4   | 48016                  | City of Denton Landfill                     | Denton     | 1590A    | 344,184,764                      | 0   | 12,866,331                     | 7,498                                  |
| 4   | 48028                  | Camelot LFGTE Facility                      | Denton     | 1312A    | 0                                | 0   | 26,613,029                     | 579,696                                |
| 4   | 48032                  | IESI Turkey Creek Landfill                  | Johnson    | 1417B    | 936,151,000                      | 456,659,000                                 | 0                              | 0                                      |
| 4   | 48012                  | Landfill Gas Processing Plant               | Tarrant    | 358B     | 618,408                          | 618,408                                     | 0                              | 0                                      |
| 4   | 48027                  | Westside Landfill Gas to Electric Facility  | Tarrant    | 1019A    | 735,504,000                      | 0   | 36,851,196                     | 1,460,014                              |
| 6   | 48026                  | Greenwood Farms Landfill                    | Smith      | 1972A    | 723,738,000                      | 353,043,000                                 | 0                              | 0                                      |
| 11  | 48020                  | City of Waco Landfill                       | McLennan   | 948A     | 198,502,000                      | 0   | 0                              | 0                                      |
| 12  | 48000                  | Sunset Farms Gas Recovery Facility          | Travis     | 1447A    | 346,801,578                      | 0   | 12,496,396                     | 1,048,282                              |
| 12  | 48019                  | Austin Community Landfill Power Station     | Travis     | 249D     | 1,316,058,000                    | 0   | 47,180,134                     | 2,354,666                              |
| 16  | 48035                  | Blue Ridge Landfill Gas Compressor Station  | Brazoria   | 1505A    | 833,716,571                      | 382,555,530                                 | 0                              | 0                                      |
| 16  | 48022                  | Baytown LFGTE Facility                      | Chambers   | 1535B    | 0                                | 0   | 10,679,988                     | 15,369,300                             |
| 16  | 48034                  | Fort Bend Landfill Gas Treatment Facility   | Fort Bend  | 2270     | 1,185,390,000                    | 578,239,000                                 | 0                              | 0                                      |
| 16  | 48009                  | Coastal Plains LFGTE Facility               | Galveston  | 1721A    | 0                                | 0   | 35,981,917                     | 38,802,500                             |
| 16  | 1777                   | McCarty Road Landfill Gas Recovery Facility | Harris     | 261B     | 2,461,159,058                    | 1,323,389,000                               | 0                              | 0                                      |
| 16  | 48006                  | Atascocita LFGTE Facility                   | Harris     | 1307D    | 0                                | 0   | 71,942,628                     | 75,773,100                             |
| 16  | 48010                  | Blue Bonnet LFGTE Facility                  | Harris     | 1279     | 0                                | 0   | 3,653,640                      | 3,951,500                              |
| 16  | 48025                  | Ameresco McCarty Energy                     | Harris     | 261B     | 1,175,089                        | 1,175,089                                   | 0                              | 0                                      |
| 16  | 48008                  | Security Landfill RDF                       | Montgomery | 1752B    | 0                                | 0   | 25,380,793                     | 26,102,800                             |

| COG | Permit or Registration | Site Name  | County   | Landfill | Gas Processed (ft <sup>3</sup> ) | Gas Distributed Off-site (ft <sup>3</sup> ) | Power Generated and Sold (kWh) | Power Generated and Used On-Site (kWh) |
|-----|------------------------|--|----------|----------|----------------------------------|---|--------------------------------|--|
| 17  | 48036                  | City of Victoria Landfill Gas Treatment Facility | Victoria | 1522A    | 274,950                          | 274,950                                     | 0                              | 0                                      |
| 18  | 48005                  | Tessman Road Landfill Gas Power Station          | Bexar    | 1410C    | 1,463,624,471                    | 0   | 59,371,399                     | 4,396,922                              |
| 18  | 48015                  | Covel Gardens Landfill Gas Power Station         | Bexar    | 2093B    | 1,519,038,797                    | 0   | 59,704,384                     | 3,704,015                              |
| 18  | 48029                  | Mesquite Creek LFGTE Facility                    | Comal    | 66B      | 605,064,000                      | 0   | 25,270,724                     | 745,049                                |
| 21  | 48038                  | Edinburg Landfill Gas Treatment Facility         | Hidalgo  | 956B     | 229,520,000                      | 111,961,000                                 | 0                              | 0                                      |

# MSW Waste and Material Type Descriptions

## Descriptions of MSW Waste and Material Types

| Waste/Material Type              | Description   |
|----------------------------------|---|
| Brush                            | Cuttings or trimmings from trees, shrubs, or lawns and similar materials.   |
| CESQG                            | Conditionally exempt small-quantity generator – a person that generates no more than 220 pounds of hazardous waste in a calendar month.   |
| Class 1 wastes                   | Any industrial solid waste or mixture of industrial solid wastes that because of its concentration, or physical or chemical characteristics is toxic, corrosive, flammable, a strong sensitizer or irritant, a generator of sudden pressure by decomposition, heat, or other means, or may pose a substantial present or potential danger to human health or the environment when improperly processed, stored, transported, or disposed of or otherwise managed, as further defined in §335.505 of this title (relating to Class 1 Waste Determination). |
| Class 2 wastes                   | Any individual solid waste or combination of industrial solid waste that are not described as Hazardous, Class 1, or Class 3 as defined in §335.506 of this title (relating to Class 2 Waste Determination).  |
| Class 3 wastes                   | Inert and essentially insoluble industrial solid waste, usually including, but not limited to, materials such as rock, brick, glass, dirt, and certain plastics and rubber, etc., that are not readily decomposable, as further defined in §335.507 of this title (relating to Class 3 Waste Determination).  |
| Commercial solid waste           | All types of solid waste generated by stores, offices, restaurants, warehouses, and other nonmanufacturing activities, excluding residential and industrial wastes.   |
| Construction or demolition waste | Waste resulting from construction or demolition projects; includes all materials that are directly or indirectly the by-products of construction work or that result from demolition of buildings and other structures, including, but not limited to, paper, cartons, gypsum board, wood, excelsior, rubber, and plastics.   |
| Covered television equipment     | A direct view or projection television with a viewable screen of nine inches or larger whose display technology is based on cathode ray tube, plasma, liquid crystal, digital light processing, liquid crystal on silicon, crystal reflective technology, light-emitting diode, or similar technology. This definition also covers a display that is peripheral to a computer that contains a television tuner. This program applies to television equipment that is purchased primarily for personal or home-business use.                               |
| Grease trap waste                | Material collected in and from a grease interceptor in the sanitary sewer service line of a commercial, institutional, or industrial food service or processing establishment, including the solids resulting from dewatering processes.  |
| Grit trap waste                  | Grit trap waste includes waste from interceptors placed in the drains prior to entering the sewer system at maintenance and repair shops, automobile service stations, car washes, laundries, and other similar establishments.   |
| Litter                           | Rubbish and putrescible waste.  |

| Waste/Material Type   | Description   |
|-----------------------|---|
| Medical waste         | Treated and untreated special waste from health care-related facilities that is comprised of animal waste, bulk blood, bulk human blood, bulk human body fluids, microbiological waste, pathological waste, and sharps as those terms are defined in 25 TAC §1.132 (relating to Definitions) from the sources specified in 25 TAC §1.134 (relating to Application), as well as regulated medical waste as defined in 49 Code of Federal Regulations §173.134(a)(5), except that the term does not include medical waste produced on a farm or ranch as defined in 34 TAC §3.296(f) (relating to Agriculture, Animal Life, Feed, Seed, Plants, and Fertilizer), nor does the term include artificial, nonhuman materials removed from a patient and requested by the patient, including, but not limited to, orthopedic devices and breast implants. |
| Monofill              | A landfill that is granted a permit by rule, for a period of up to five years to a county or municipality with a population of 12,000 people or less to dispose of demolition waste from properties with nuisance or abandoned building.  |
| Municipal solid waste | Solid waste, resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial solid waste.   |
| NHIW                  | Nonhazardous Industrial Waste. Includes Class 1 nonhazardous, Class 2, and Class 3 wastes.  |
| Non-RACM              | Non-regulated asbestos-containing material as defined in 40 Code of Federal Regulations Part 61. This is asbestos material in a form such that potential health risks resulting from exposure to it are minimal.  |
| Paper                 | A material made from plant fibers (such as but not limited to wood pulp, rice hulls, and kenaf). The sludge byproduct resulting from the production of paper may be approved as a feedstock pursuant to §332.33(b) of this title (relating to Required Forms, Applications, Reports, and Request To Use the Sludge Byproduct of Paper Production).  |
| RACM                  | Regulated asbestos-containing material as defined in 40 Code of Federal Regulations Part 61, as amended, includes: friable asbestos material, Category I nonfriable ACM that has become friable; Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; or Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during demolition or renovation operations.  |

| Waste/Material Type                 | Description   |
|-------------------------------------|---|
| Residential waste (Household waste) | Any solid waste (including garbage, trash, and sanitary waste in septic tanks) derived from households (including single and multiple houses, hotels, and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas); does not include yard waste or brush that is completely free of any household wastes. |
| Septage                             | The liquid and solid material pumped from a septic tank, cesspool, or similar sewage treatment system.  |
| Sludge                              | Any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water-supply treatment plant, or air pollution control facility, exclusive of the treated effluent from a wastewater treatment plant.  |
| Tires (Scrap)                       | Any tire that can no longer be used for its original intended purpose. Only split, quartered, or shredded tires may be disposed of in a landfill.   |
| Television recycler                 | A person who separates collected television equipment and refurbishes that equipment for reuse, or processes equipment to be returned to use in the form of raw materials or products. The term does not include an entity that solely collects or sorts television equipment prior to shipment for recycling.  |
| Used oil                            | Any oil that has been refined from crude oil, has been used, and, as a result of such use, is contaminated by physical or chemical impurities.  |
| White goods                         | Discarded large household appliances such as refrigerators, stoves, washing machines, or dishwashers.   |
| Yard trimmings                      | Leaves, grass clippings, yard and garden debris, and brush, including clean woody vegetative material not greater than six inches in diameter that results from landscaping maintenance and land-clearing operations. The term does not include stumps, roots, or shrubs with intact root balls.  |





