MINOR POINT SOURCE EMISSIONS – PHASE 3

Final

Prepared for:

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1.0 INTRODUCTION

In Texas, and for purposes of this project, a minor point source (MPS) is defined as any regulated entity that emits air contaminants into the air and that is not required to report annual actual emissions to the Texas Commission on Environmental Quality (TCEQ). Although minor point sources are not required to report actual annual emissions to TCEQ, they may voluntarily report emissions or may be required to report emissions based on previous violations. These MPSs are considered to be, collectively, potentially significant sources of nitrogen oxides (NO_x), sulfur dioxide (SO_2), volatile organic compounds (VOC), carbon monoxide (CO), particulate matter (PM) with an aerodynamic diameter of 10 micrometers (µm) or less (PM_{10}), and PM with an aerodynamic diameter of 2.5 µm or less ($PM_{2.5}$).

Minor point sources can include many different types of facilities (i.e., equipment and processes) including those that obtain construction and operating permits due to their location (e.g., within a nonattainment area), those that are exempt from permitting requirements, and those that are subject to permit by rule (PBR). The fact that emissions data for these types of facilities, equipment, and processes are not compiled into a single database means they may be unaccounted for in the current statewide point sources emissions inventory. Furthermore, the extent that emissions from these sources are included in the statewide industrial point and area sources emissions inventories also is not known.

1.1 Background

In 2007, work was conducted by Eastern Research Group, Inc. (ERG) under TCEQ Work Order #3, Contract No. 582-07-84033 to identify and prioritize the categories of MPSs operating in Texas, and to develop a work plan to estimate emissions from these sources in a subsequent phase. The 2007 project, termed "MPS Phase 1," resulted in collection and assessment of existing TCEQ information leading to estimation of "order-of-magnitude" emissions for all facilities identified during the project.[1] The facility emissions were grouped by Standard Industry Classification (SIC) codes in order to identify the potentially most significant industry sectors comprising the overall minor point source population. This analysis showed that the highest order-of-magnitude NO_x and VOC emissions (i.e., ozone precursors) resulted from SICs 28xx (Chemicals and Allied Products), 29xx (Petroleum Refining and Related Industries), and 32xx (Stone, Clay, Glass, and Concrete Products). These were the focus of the Phase 2 project.

In 2008, work was conducted by ERG under TCEQ Work Order #13 (MPS Phase 2) to perform a detailed analysis of these high-priority SICs, including an extensive mail-out survey to 4,000 regulated entities thought to be minor point sources. Survey data were collected, compiled into a database, and analyzed to assess their completeness. Also, recommendations were made for further analysis and emissions inventory development procedures to be performed in a

[1] "Small Stationary Point Source Emissions – Phase 1, Final." Prepared for the Texas Commission on Environmental Quality by Eastern Research Group, Inc. August 31, 2007.

subsequent task.[2] The follow-on project, conducted under TCEQ Work Order #23 in 2009 resulted in emissions inventories estimates at the county level for the three SIC groups (i.e., 28xx, 29xx, and 32xx), which will be used by TCEQ to improve their area source emissions inventory.[3]

1.2 Project Objectives and Scope

TCEQ issued Work Order #24 to ERG to continue to improve TCEQ's area source emissions inventory by developing emissions estimates of previously unreported emissions for minor point sources within the following four SIC groups:

- 20xx – Food and Kindred Products
- 24xx – Lumber and Wood Products
- 33xx – Primary Metal Industries
- 34xx – Fabricated Metal Products

These SICs were selected based on the results of the MPS Phase 1 project to identify the potentially most significant industry sectors whose emissions were unaccounted for because they were not required to report directly to TCEQ.

The following tasks were conducted by ERG under this Work Order #24:

- Task 1: Work Plan
- Task 2: Source Categories and Activity Data
- Task 3: Survey Development
- Task 4: Activity Data Collection
- Task 5: Emissions Inventory Development
- Task 6: Reporting and Documentation
- Task 7: Development of Formatted Emissions Inventory
- Task 8: (Monthly) Progress Reports

The overall objectives of this project are development of an emissions inventory for calendar years 2005 and 2008 for MPSs in Texas for SIC groups 20xx, 24xx, 33xx, and 34xx. Emissions are estimated for NO_x, SO_2, VOC, CO, PM_{10}, and $PM_{2.5}$.[4] Annual and ozone season daily (OSD) emissions are estimated for emissions that are: actual, and maximum potential.

Originally, it was intended to also estimate emissions for both controlled and uncontrolled conditions, however, this was not feasible because most of the underlying data used to estimate emissions (i.e., survey data including Maximum Achievable Emission Rate Table [MAERT] data) were based on controlled emissions. Also, in most cases, the control efficiencies of the control devices were not provided by the facilities completing the surveys. Back calculating an uncontrolled emission rate using a controlled emission rate (as reported) and

[2] "Minor Point Source Emissions Inventory – Task 3 Results Pertaining to Survey, Methodology, Data Analysis, and Recommendations. Final Memorandum." Prepared for the TCEQ by ERG. August 31, 2008.
[3] "Minor Point Source Emissions – Phase 2, Final Report." Prepared for the TCEQ by ERG. July 15, 2009.
[4] Specific pollutants for which emissions will be estimated are based on the results of the survey. These may change between the draft and final reports.

an assumed control efficiency would have introduced what is believed to be a high amount of uncertainty in the uncontrolled emission rate. Therefore, it was decided not to estimate uncontrolled emissions, and instead focus time and resources on developing the most accurate controlled emissions estimates possible.

The remainder of this report describes the approach used to identify, collect, and compile data; estimate emissions for model plants; and to apply model plant emissions to the entire population of MPS facilities operating in Texas under SICs 20xx, 24xx, 33xx, and 34xx for years 2005 and 2008.

2.0 MINOR POINT SOURCE FACILITY IDENTIFICATION

The first step in development of a MPS inventory for the subject SICs was to identify the MPSs already registered with the TCEQ. Although these sources are not required to submit annual air emissions data to TCEQ, they have a regulated entity number (RN) on file with TCEQ. Reasons for a MPS to have an RN could vary, but would likely include either a permit or a notice of violation has been issued. These RNs are on file in TCEQ's "Central Registry" database.

Therefore, to begin this process, a listing of all RNs with associated data (e.g., SIC, contact information, etc.) was obtained from Central Registry. This returned 27,883 records with the following information:

- RN number
- Regulated entity name
- Primary business description
- SIC/NAICS
- Program area
- Program area status
- Contact information
- Contact role
- Contact name
- Customer name
- Street address
- Contact phone number

The Central Registry dataset contained many duplicates. Duplicates can occur due to several reasons, but a prevalent cause is when more than one of the following parameters for a given RN exist: SIC, address, or phone number. Eliminating the obvious duplicate records resulted in 12,607 unique Central Registry records.

Next, the Central Registry records were matched to a list of RNs contained in the State of Texas Air Reporting System (STARS) database. STARS contains the major point sources which are required to report their emissions to TCEQ annually. The RN records for the RNs contained in STARS were deleted. There were still numerous duplicates, so each duplicate record was

reviewed in detail in order to assess the reason for the duplication, and determine the valid record; this exercise eliminated more duplicates. The resulting data set contained 738 records with the SIC groups of 20xx, 24,xxx, 33xx, and 34xx. This data set of 738 records became the sample frame used in the mail-out survey (described below), and was distributed across the SICs as follows:

- SIC 20xx = 126 records
- SIC 24xx = 81 records
- SIC 33xx = 64 records
- SIC 34xx = 467 records

3.0 ACTIVITY DATA COLLECTION

The core of the data collection activities was a mail-out survey sent to the 738 companies identified through the Central Registry process previously described. This was augmented with information from TCEQ's permit files. This entire process is described below.

3.1 Mail-Out Survey

The 738 RN records were careful reviewed to ensure to the greatest extent possible that each record had a valid address. When an address did not appear valid (e.g., missing street number, nonsensical town, etc.), then several steps were taken to correct the address, including use of various Internet search engines, and telephone calls to the contact name listed in the record. This was important to avoid many returned surveys due to undeliverable addresses, which is what had occurred in the Phase 2 project. Also, because the survey frame of 738 was a much smaller number than the 4,000 originally anticipated (based on the MPS Phase 2 experience), resources were used to conduct extensive QA of the addresses.

A survey code was assigned to each RN. The survey codes followed a similar format as was used in the Phase 2 project. Each code began with a "T", which was followed by the first two digits of the SIC number (i.e., 20, 24, 33, 34), and a unique three-digit number assigned randomly to each record. For example, the 24-series SIC records had survey IDs of from T24001 through T24081. A complete listing of the 738 facilities, with their assigned survey codes, is located in Appendix A.

It is important to note that these 738 facilities are those registered with the TCEQ, and which are not major point sources. Therefore, they represent a percentage of the total number of operating minor point source facilities in Texas since there are numerous other facilities that have not (nor are they required to) register with the TCEQ. The entire "universe" of MPSs in the subject SICs is identified as part of the emissions inventory development described in Section 4.0, below.

Survey forms were developed for each SIC group. While the questions were the same for all for SIC groups, the introductory paragraph was unique for each SIC group to describe the

types of industries in each group. For example, the introductory paragraph for SIC group 20xx read as follows:

> "Complete this survey for each site engaged in the manufacturing or processing of foods and beverages for human consumption, and certain related products (e.g., manufactured ice, vegetable and animal fats and oils, prepared feeds for animals and fowls, etc.), authorized by a standard exemption, permit-by-rule, or air permit (as applicable) during calendar year 2008."

Copies of each SIC survey form are contained in Appendix B. Each form was accompanied by a cover letter from TCEQ requesting the survey information. TCEQ and ERG worked closely to review, revise, and finalize the forms before they were mailed out. All surveys were mailed on June 2, 2009.

Survey recipients were asked to complete the forms to the best of their ability, for calendar year 2008, if available. If data were not available for 2008, then recipients were asked to complete it for an alternative year. In addition to completing the survey forms, recipients were asked to attach copies of their Maximum Allowable Emission Rate Table (MAERT) or Certified Emission Rate Table (CERT), if applicable. They were also asked to indicate on the table any control devices and their associated control efficiencies, as applicable. The MAERT data provide key information in estimating maximum and actual emissions for minor point sources.

3.2 Compilation and Quality Assurance of Survey and MAERT Data

Completed surveys were received through June, and up until July 15, 2009. Also, during this period, ERG and TCEQ staff fielded numerous telephone calls asking questions about the survey. The most frequently asked questions and comments were:

- May I have more time to complete the survey?
- Do I need to fill this out if my process equipment runs only on electricity (i.e., does not burn fuel)?
- What does "maximum design capacity" mean?
- General questions about how to fill out the survey.

Data entry forms were developed in Microsoft Access, and as surveys were returned, the information was entered into a survey database. Also, separate data entry forms were developed for the MAERTs, which were entered into a separate database that was later merged with the survey database. After all surveys had been entered, each one was reviewed by comparing the information on the form to the actual data entered into the database. This was done for all surveys returned, and any errors found were corrected. MAERT data entry was also checked against all of the actual MAERTs. It should be noted that CERTs were also returned with a few surveys, however, because there were only a few of these, the remainder of this report refers to these tables collectively as MAERTs.

The following list summarizes the survey statistics:

- 738 surveys were mailed;

- 82 surveys (11%) were returned undeliverable (e.g., not deliverable as addressed, insufficient address, no mail receptacle, attempted-not known, no such street, etc.)
  - Of the 82 surveys returned, ERG called 21 facilities to obtain fax numbers, and then faxed the form to them (only 2 of the 21 facilities contacted eventually returned surveys).
- 85 surveys (12%) returned surveys were disqualified for various reasons, including: sold prior to 2005, no longer in operation, not a relevant industry (i.e., not in SIC 20xx, 24xx, 33xx, or 34xx), already reporting to TCEQ as a major source, or other reasons documented in the comment column of the survey database.
- 143 surveys (19%) returned surveys contained useful data, including 91 surveys with associated MAERTs. In addition, some surveys were collected for facilities to which a survey was not originally mailed. This typically occurred when companies that received a survey for a single plant, operated other plants within the subject SICs, but did not receive surveys to complete for these additional plants; therefore, the company chose to return surveys for all applicable facilities. In these cases, new T#s exceeding 90000 were entered into the database.

3.3 Compilation of Permit Data

Information from permit files was also obtained for facilities contained within the survey frame, known to have NSR permits, and which did not return surveys. Records with an account number beginning with X, J, K, C, R, F, S, or T were retained. This left 369 regulated entities for which ERG then developed a prioritized approach for permit research. For each SIC, a ratio was calculated based upon the number of returned surveys with MAERT tables divided by the total number of statewide facilities as identified in *County Business Patterns*. A high ratio indicated a high number of MAERT tables relative to the total number of facilities. Conversely, a lower ratio indicated a lower number of MAERT tables relative to the total number of facilities. Attempts to collect permit file information were made for high priority SICs (i.e., ratios less than 5 percent) and medium priority SICs (i.e., ratios between 5 and 10 percent). Permit file information was not collected for low priority SICs (i.e., ratios greater than 10 percent) because it was felt that a ratio of 1 MAERT table for every 10 facilities was sufficient data to attempt to develop a representative model plant.

An initial attempt to identify MAERT data was made using the TCEQ Novell GroupWise WebPublisher website at https://webmail.tceq.state.tx.us/gw/webpub. For the RNs for which ERG was unable to locate MAERT data using the online system, ERG submitted requests to have the physical permit files pulled from the file room at TCEQ. Due to time constraints involved with physical file searches, these requests were limited to the high and medium priority regulated entities that had paper files; no microfilm was searched.

Once MAERT data were identified in the physical file, ERG scanned the MAERT data into an electronic file. Then, these data were entered into the MAERT database using an identifier beginning with "P" to indicate the data came from the permit.

3.4 Merged Database

The last step in data collection and compilation was to merge the collected data (i.e., Survey database and MAERT database) into one comprehensive database. Data from the Survey database and the MAERT database were merged based on the survey ID number. MAERT data collected from the permits did not have corresponding surveys and were simply appended to the merged data. Data from the survey were identified with a survey ID beginning with a "T"; data from the permit data collection were identified with a survey ID beginning with a "P".

Using the merged Survey/MAERT database, the data were examined to determine if any SICs were missing or invalid. For example, in some cases, only 2-digit SICs had been filled in on the survey form. These invalid, or out of range SICs were examined, and replaced on a case-by-case basis with the assumed valid SIC. For records with a NAICS code only (i.e., no SIC), a crosswalk form NAICS to SIC was used to identify a valid 4-digit SIC. However, NAICS do not always map to SICs on a one-to-one basis. In instances where a NAICS code mapped to multiple SICs, an SIC was assigned to that record based on the predominant SIC for the corresponding county and NAICS code, based on the total number of establishments from the *County Business Pattern* data (http://censtats.census.gov/cgi-bin/cbpnaic/cbpsel.pl).

4.0 EMISSIONS INVENTORY METHODOLOGY

To begin the development of the emissions inventory, ERG compiled the following information from the merged database:

- Facility Data:
  - Process type
  - Facility capacity
  - Capacity factors or estimates of actual emissions
  - Process throughput
  - Hours of operation
  - Emission limits (if permitted)
  - Controls
  - SCCs (if reported)
  - Location (county)
- Profiles of activity data previously developed for each facility type.
- Any gap-filling measures employed.

Next, a method was developed which followed closely the method used for the MPS Phase 2 project, focusing on refining the list of SICs for which data were available to estimate model plant emissions. Next, model plant emissions were estimated, and then they were applied to the population of sources in the subject SICs.

4.1 Identify Candidate SICs for Development of Model Plant Emissions

SIC groups 20xx, 24xx, 33xx, and 34xx comprise a total of 129 4-digit SICs. Surveys were returned for 56 SICs of the total possible 129 SICs. Of the 56 SICs with returned surveys, a

total of 20 SICs did not have any MAERT data, which is to be the basis for development of model plants. The 20 SICs without MAERT data are the following (i.e., NEC = not elsewhere classified):

2024 – Ice cream & frozen desserts
2026 – Fluid milk
2038 – Frozen specialties, NEC
2044 – Rice milling
2046 – Wet corn milling
2053 – Frozen bakery products, except bread
2087 – Flavoring extracts & syrups, NEC
2097 – Manufactured ice
2451 – Mobile homes
2493 – Reconstituted wood products
3315 – Steel wire & related products
3364 – Nonferrous die-castings, except aluminum
3366 – Copper foundries
3398 – Metal heat treating
3412 – Metal barrels, drums, & pails
3444 – Sheet metal work
3462 – Iron & steel forgings)
3465 – Automotive stampings
3492 – Fluid power valves & hose fittings
3494 – Valves & pipe fittings, NEC

The MAERT data for the remaining 36 SICs were then examined in detail. MAERT emissions data for fuel combustion sources (e.g., boilers, ovens, dryers, oxidizers, kilns, etc.), motor vehicles, road dust, and ambiguous aggregated or summarized sources were deleted from the merged database. The deletion of these sources from the merged database resulted in the elimination of nine more SICs, as follows (i.e., NEC = not elsewhere classified):

2022 – Natural & processed cheese
2033 – Canned fruits & vegetables
2077 – Animal & marine fats & oils
2095 – Roasted coffee
3321 – Gray iron foundries
3325 – Steel foundries, NEC
3399 – Primary metal products, NEC
3442 – Metal doors, sash, & trim
3449 – Miscellaneous metal work

The remaining 27 SICs are presented in Table 4-1. As shown in Table 1, there were a total of 141 returned surveys from these SICs of which 92 included MAERT data.

4.2 Determine Process Commonalities for Each SIC

For each of the remaining 27 SICs contained in Table 4-1, the survey database was examined to identify "process commonalities" (i.e., similar processes that appear in multiple facilities). Process commonalities would be used to characterize the appropriate processes in the SIC-specific model plants for which MAERT data exist.

After examining the 27 SICs, it was determined that 12 SICs did not possess any process commonalities. In some cases, there were only a few returned surveys for a particular SIC with no common processes between the reported facilities. In other instances, the reported process were insufficient and/or ambiguous such that process commonalities could not be reasonably assumed. The 12 SICs without any process commonalities are as follows:

Table 4-1. SICs with Returned Surveys and MAERT Data

SIC	SIC Description	NAICS	No. of Returned Surveys	No. of Returned Surveys with MAERTs	MAERTs Obtained From Permits	Total Records with MAERTs
2011	Meat packing plants	311611	2	1	4	5
2013	Sausages & other prepared meats	311612	2	1	2	3
2015	Poultry & egg processing	311615	3	1	2	3
2041	Flour & other grain mill products	311211	6	5	0	5
2047	Dog & cat food	311111	2	2	0	2
2048	Prepared feeds, NEC	311119	5	5	0	5
2051	Bread, cake, & related products	311812	2	2	3	5
2421	Sawmills & planing mills, general	321113	7	3	5	8
2431	Millwork	321911/321918	3	1	4	5
2434	Wood kitchen cabinets	337110	5	1	2	3
2449	Wood containers, NEC	321920	1	1	2	3
2491	Wood preserving	321114	3	2	0	2
3351	Copper rolling & drawing	331421	3	2	0	2
3354	Aluminum extruded products	331316	3	3	0	3
3363	Aluminum die-castings	331521	2	2	0	2
3365	Aluminum foundries	331524	1	1	4	5
3369	Nonferrous foundries, NEC	331528	1	1	0	1
3433	Heating equipment, except electric	333414	1	1	0	1
3441	Fabricated structural metal	332312	15	4	15	19
3443	Fabricated plate work, boiler shops	332313/332410/ 332420	12	9	7	16
3446	Architectural metal work	332323	1	1	2	3
3452	Bolts, nuts, rivets, & washers	332722	1	1	1	2
3471	Plating & polishing	332813	12	6	20	26
3479	Metal coating & allied services	332812	30	16	0	16
3491	Industrial valves	332911	4	1	3	4
3498	Fabricated pipe & fittings	332996	6	2	7	9
3499	Fabricated metal products, NEC	332999	8	5	9	14
		Total	**141**	**80**	**92**	**172**

NEC = not elsewhere classified

2011 – Meat packing plants
2015 – Poultry & egg processing
2047 (Dog & cat food)
2431 (Millwork)
2434 (Wood kitchen cabinets)
2449 (Wood containers, NEC)
3351 (Copper rolling & drawing)
3433 (Heating equipment, except electric)
3446 (Architectural metal work)
3452 (Bolts, nuts, rivets, & washers)
3491 (Industrial valves)
3498 (Fabricated pipe & fittings)

The process commonalities for the remaining 15 SICs are presented in Table 4-2. Details (e.g., specific SCC, number of processes, etc.) for each of these process commonalities were not examined closely at this point.

The model plants for the 15 SICs are shown in Table 4-3. The model plant components represent the processes that were identified for many (but not necessarily all) of the facilities in the survey. Multiple processes are shown as parenthetic numbers; the number of multiple processes is based upon the number of processes reported for the relevant facilities. These model plants do not include fuel combustion, because the focus of the project was on process emissions. Because fuel combustion is not included the model plants, model plant emissions for the 15 SICs are limited to VOC and PM_{10} emissions.

4.3 Match to County Business Patterns

Next, *County Business Patterns* statistics for years 2005 and 2007 were used to determine facility counts for the 15 SICs.[5] These facility counts were adjusted to account for major point sources included in the STARS database. Statewide facility totals for both 2005 and 2007, as well as the net change from 2005 to 2007, are presented in Table 4-4. Between 2005 and 2007, the total number of facilities for the 15 SICs increased by 6.2% (from 1,556 to 1,652). Overall, the statewide number of facilities increased for 10 SICs, decreased for 1 SIC, and remained unchanged for 4 SICs.

4.4 Model Plant and Statewide Emissions Estimates

Next, the "best fit" facility-level Source Classification Codes (SCCs) were assigned to each model plant SIC. Point source SCCs, which consist of 8 digits, are quite detailed for describing individual industrial processes; however, 10-digit area source SCCs are more general and do not easily match up with specific SICs. Based upon examination of the area source SCC descriptions from TexAER, the following 9 area source SCCs were thought to most accurately represent the 15 model plant SICs:

[5] *County Business Patterns.* U.S. Census Bureau. Internet address: http://www.census.gov/econ/cbp/index.html

Table 4-2. Candidate Model Plant SICs: Based on Process Commonalities

SIC and Description	Process Commonalities
2013 (Sausages & other prepared meats)	• Smokehouse
2041 (Flour & other grain mill products)	• Grain receiving • Grain handling • Grain storage • Grain cleaning • Milling • Aspirator/purifier • Flour storage • Packing • Loadout
2048 (Prepared feeds, not elsewhere classified)	• Railcar receiving • Truck receiving • Grain storage/elevator • Other ingredient receiving • Hammermill • Pellet cooling • Truck loadout
2051 (Bread, cake, & related products)	• Flour silo
2421 (Sawmills & planing mills, general)	• Sawing • Planing • Debarking • Chipping • Chip/bark pile • Chip loadout • Fuel wood storage • Fuel wood loadout • Ash loadout
2491 (Wood preserving)	• Cut-off saw • Debarker • Bark loading • Head-rig saw • Scragg saw • Gang saw • Trim saw • Chip operation • Chip loadout • Conveyor transfer • Planers • Shavings loadout
3354 (Aluminum extruded products)	• Spray booths • Alkaline solution • Chromate solution
3363 (Aluminum die castings)	• Electric furnace/die cast machine • Shot blast machine • Parts polishing
3365 (Aluminum foundries)	• Melt furnace • Rap room dust control • Parts polishing

Table 4-2. Continued

SIC and Description	Process Commonalities
3369 (Nonferrous foundries, not elsewhere classified)	• Shell and penetrant inspection • Casters • Can slammer • Dust collection
3441 (Fabricated structural metal)	• Paint booth • Abrasive blasting
3443 (Fabricated plate work, boiler shops)	• Paint booth • Abrasive blasting
3471 (Plating & polishing)	• Paint booth • Abrasive blasting • Chrome scrubber stack
3479 (Metal coating & allied services)	• Abrasive blasting • Zinc kettle • Paint booth
3499 (Fabricated metal products, not elsewhere classified)	• Paint booth • Abrasive blasting

Table 4-3. SICs for Which Model Plants are Developed

SIC and Description	Process Commonalities
2013 (Sausages & other prepared meats)	• Smokehouse (2)
2041 (Flour & other grain mill products)	• Grain receiving (2) • Grain handling (2) • Grain storage (2) • Grain cleaning (2) • Milling (2) • Aspirator/purifier (2) • Flour storage (2) • Packing (2) • Loadout (2)
2048 (Prepared feeds, not elsewhere classified)	• Railcar receiving (2) • Truck receiving • Grain storage/elevator • Other ingredient receiving (3) • Hammermill • Pellet cooling • Truck loadout
2051 (Bread, cake, & related products)	• Flour silo (4)
2421 (Sawmills & planing mills, general)	• Sawing • Planing • Debarking • Chipping • Chip/bark pile • Chip loadout • Fuel wood storage • Fuel wood loadout • Ash loadout
2491 (Wood preserving)	• Cut-off saw • Debarker • Bark loading • Head-rig saw • Scragg saw • Gang saw • Trim saw (2) • Chip operation (2) • Chip loadout (2) • Conveyor transfer • Planers • Shavings loadout
3354 (Aluminum extruded products)	• Spray booths • Alkaline solution • Chromate solution
3363 (Aluminum die castings)	• Electric furnace/die cast machine (4) • Shot blast machine • Parts polishing
3365 (Aluminum foundries)	• Melt furnace (7) • Rap room dust control • Parts polishing
3369 (Nonferrous foundries, not elsewhere classified)	• Shell and penetrant inspection • Casters (4) • Can slammer

Table 4-3. Continued

SIC and Description	Process Commonalities
	• Dust collection
3441 (Fabricated structural metal)	• Paint booth (2) • Abrasive blasting
3443 (Fabricated plate work, boiler shops)	• Paint booth • Abrasive blasting
3471 (Plating & polishing)	• Paint booth • Abrasive blasting • Chrome scrubber stack (2)
3479 (Metal coating & allied services)	• Abrasive blasting • Zinc kettle (2) • Paint booth
3499 (Fabricated metal products, not elsewhere classified)	• Paint booth • Abrasive blasting

Table 4-4. SICs with MAERT Data Matched to County Business Patterns

SIC	SIC Description	NAICS	Adjusted CBP Establishments[a]		Net Change (2005 to 2007)
			2005	2007	
2013	Sausages & other prepared meats	311612	107	107	0
2041	Flour & other grain mill products	311211	19	20	1
2048	Prepared feeds, NEC	311119	109	108	-1
2051	Bread, cake, & related products	311812	110	117	7
2421	Sawmills & planing mills, general	321113	91	95	4
2491	Wood preserving	321114	24	26	2
3354	Aluminum extruded products	331316	13	13	0
3363	Aluminum die-castings	331521	8	9	1
3365	Aluminum foundries	331524	23	23	0
3369	Nonferrous foundries, NEC	331528	3	3	0
3441	Fabricated structural metal	332312	281	304	23
3443	Fabricated plate work, boiler shops	332313/332410/ 332420	249	273	24
3471	Plating & polishing	332813	148	153	5
3479	Metal coating & allied services	332812	186	204	18
3499	Fabricated metal products, NEC	332999	185	197	12
		Total	**1,556**	**1,652**	**96**

NEC = not elsewhere classified

[a] *County Business Patterns* facility counts were adjusted by subtracting known point source facility counts obtained from the STARS database.

- SCC 2302010000 (Industrial Processes – Food and Kindred Products – Meat Products) for SIC 2013.
- SCC 2302040000 (Industrial Processes – Food and Kindred Products – Grain Mill Products) for SIC 2041 and 2048.
- SCC 2302050000 (Industrial Processes – Food and Kindred Products – Bakery Products) for SIC 2051.
- SCC 2307020000 (Industrial Processes – Wood Products – Sawmills/Planing Mills) for SIC 2421.
- SCC 2307060000 (Industrial Processes – Wood Products – Miscellaneous Wood Products) for SIC 2491.
- SCC 2304050000 (Industrial Processes – Secondary Metal Production – Nonferrous Foundries) for SIC 3365 and 3369.
- SCC 2309100010 (Industrial Processes – Fabricated Metals – Coating, Engraving, and Allied Services – Electroplating) for SIC 3471.
- SCC 2309100080 (Industrial Processes – Fabricated Metals – Coating, Engraving, and Allied Services – Hot Dip Zinc Galvanizing) for SIC 3479.
- SCC 2309000000 (Industrial Processes – Fabricated Metals – All Processes for SIC 3354, 3363, 3441, 3443, and 3499.

Finally, the facility-level annual maximum, annual actual, and OSD emissions were then multiplied by the number of facilities operating in each county in 2005 and 2007, adjusted for major point sources, according to the *County Business Patterns*. Since 2008 *County Business Patterns* data have not been published yet, it was assumed that the 2007 *County Business Patterns* was a reasonable approximation for the 2008 inventory year.

5.0 EMISSIONS INVENTORY RESULTS

Table 5-1 through Table 5-15 show the model plant emissions data for the 15 SICs for which accurate and defensible emissions estimates could be developed. Each of the 15 SIC-specific tables list the applicable model plant components, along with their associated emission rates. The emission rates were derived by calculating the average of the hourly MAERT emission rates reported in the survey. Because the project focus was on process emissions that are not reported elsewhere in the Texas emissions inventories, emissions were not reported for fugitive dust or fuel combustion sources.

Tables 5-16 and 5-17 show the results of the overall MPS Phase 3 inventory for years 2005 and 2008, respectively. These results include emissions only for the 15 SICs (and their corresponding SCCs) for which emissions could be estimated using the model plant methodology described above. Appendices C and D contain tables showing the Texas statewide emissions, by county, for the years 2005 and 2008, respectively. Only the counties with documented businesses are shown in the tables (i.e., counties with no operating facilities for a given SIC are not shown).

As shown in Table 5-16, actual 2005 emissions for the minor point sources estimated under Work Order #24 are 24,623 tpy VOC and 2,945 tpy PM_{10}. As shown in Table 5-17, actual 2008 emissions increased slightly relative to 2005 (i.e., 26,785 tpy VOC and 3,060 tpy PM_{10})

Table 5-1. Model Plant Emissions: SIC 2013 (Sausages and Other Prepared Meats)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Smokehouse #1	0.44	0.30	MAERT Averages
Smokehouse #2	0.44	0.30	MAERT Averages
Total	0.88	0.59	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	6,220	4,194	
Maximum Emissions/facility (tpy)	3.11	2.10	
Actual Emissions/facility (lbs/year)	871	587	
Actual Emissions/facility (tpy)	0.44	0.29	
Ozone Season Day (lbs/day)	2.4	1.6	
Operational Characteristics			
Average hours/yr	7,068		
Average capacity (%)	14.0		

Table 5-2. Model Plant Emissions: SIC 2041 (Flour and Other Grain Mill Products)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Receiving pit #1	0.00	1.53	MAERT Averages
Receiving pit #2	0.00	1.53	MAERT Averages
Handling #1	0.00	0.35	MAERT Averages
Handling #2	0.00	0.35	MAERT Averages
Grain Storage #1	0.00	0.55	MAERT Averages
Grain Storage #2	0.00	0.55	MAERT Averages
Cleaning #1	0.00	0.55	MAERT Averages
Cleaning #2	0.00	0.55	MAERT Averages
Mill #1	0.00	0.38	MAERT Averages
Mill #2	0.00	0.38	MAERT Averages
Aspirator/Purifier #1	0.00	0.35	MAERT Averages
Aspirator/Purifier #2	0.00	0.35	MAERT Averages
Flour Storage #1	0.00	0.79	MAERT Averages
Flour Storage #2	0.00	0.79	MAERT Averages
Packing #1	0.00	0.66	MAERT Averages
Packing #2	0.00	0.66	MAERT Averages
Loadout #1	0.00	0.09	MAERT Averages
Loadout #2	0.00	0.09	MAERT Averages
Total	0.00	10.48	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	0	75,696	
Maximum Emissions/facility (tpy)	0.00	37.85	
Actual Emissions/facility (lbs/year)	0	39,614	
Actual Emissions/facility (tpy)	0.00	19.81	
Ozone Season Day (lbs/day)	0.0	107.9	
Operational Characteristics			
Average hours/yr	7,226		
Average capacity (%)	52.3		

Table 5-3. Model Plant Emissions: SIC 2048 (Prepared Feeds, Not Elsewhere Classified)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Railcar Receiving Pit #1	0.00	0.78	MAERT Averages
Railcar Receiving Pit #2	0.00	0.78	MAERT Averages
Truck Receiving	0.00	0.38	MAERT Averages
Grain Storage/Elevator	0.00	0.08	MAERT Averages
Other Ingredient Receiving #1	0.00	0.05	MAERT Averages
Other Ingredient Receiving #2	0.00	0.05	MAERT Averages
Other Ingredient Receiving #3	0.00	0.05	MAERT Averages
Hammermill	0.00	0.55	MAERT Averages
Pellet Cooling	0.00	4.25	MAERT Averages
Truck Loadout	0.00	0.15	MAERT Averages
Total	0.00	7.13	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	0	55,623	
Maximum Emissions/facility (tpy)	0.00	27.81	
Actual Emissions/facility (lbs/year)	0	17,614	
Actual Emissions/facility (tpy)	0.00	8.81	
Ozone Season Day (lbs/day)	0.0	48.0	
Operational Characteristics			
Average hours/yr	7,800		
Average capacity (%)	31.7		

Table 5-4. Model Plant Emissions: SIC 2051 (Bread, Cake, and Related Products)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Flour Silo #1	0.00	0.09	MAERT Averages
Flour Silo #2	0.00	0.09	MAERT Averages
Flour Silo #3	0.00	0.09	MAERT Averages
Flour Silo #4	0.00	0.09	MAERT Averages
Total	0.00	0.36	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	0	3,145	
Maximum Emissions/facility (tpy)	0.00	1.57	
Actual Emissions/facility (lbs/year)	0	1,118	
Actual Emissions/facility (tpy)	0.00	0.56	
Ozone Season Day (lbs/day)	0.0	3.0	
Operational Characteristics			
Average hours/yr	8,736		
Average capacity (%)	35.5		

Table 5-5. Model Plant Emissions: SIC 2421 (Sawmills and Planing Mills, General)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Sawing	0.00	1.54	MAERT Averages
Planing	0.00	0.37	MAERT Averages
Debarking	0.00	0.73	MAERT Averages
Chipping	0.00	0.02	MAERT Averages
Chip/Bark Pile	0.00	0.57	MAERT Averages
Chip Load Out	0.00	0.33	MAERT Averages
Fuel Wood Storage	0.00	0.04	MAERT Averages
Fuel Wood Load Out	0.00	1.29	MAERT Averages
Ash Load Out	0.00	0.02	MAERT Averages
Total	0.00	4.91	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	0	21,304	
Maximum Emissions/facility (tpy)	0.00	10.65	
Actual Emissions/facility (lbs/year)	0	9,906	
Actual Emissions/facility (tpy)	0.00	4.95	
Ozone Season Day (lbs/day)	0.0	27.3	
Operational Characteristics			
Average hours/yr	4,342		
Average capacity (%)	46.5		

Table 5-6. Model Plant Emissions: SIC 2491 (Wood Preserving)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Cut-off Saw	0.00	6.67	MAERT Averages
Debarker	0.00	0.37	MAERT Averages
Bark Loading	0.00	0.25	MAERT Averages
Head-rig Saw	0.00	0.32	MAERT Averages
Scragg Saw	0.00	3.20	MAERT Averages
Gang Saw	0.00	0.29	MAERT Averages
Trim Saw #1	0.00	0.30	MAERT Averages
Trim Saw #2	0.00	0.30	MAERT Averages
Chip Operation #1	0.00	0.01	MAERT Averages
Chip Operation #2	0.00	0.01	MAERT Averages
Chip Load Out #1	0.00	0.04	MAERT Averages
Chip Load Out #2	0.00	0.04	MAERT Averages
Conveyor Transfer	0.00	0.01	MAERT Averages
Planers	0.00	1.70	MAERT Averages
Shavings Loadings	0.00	0.05	MAERT Averages
Total	0.00	13.55	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	0	62,475	
Maximum Emissions/facility (tpy)	0.00	31.24	
Actual Emissions/facility (lbs/year)	0	16,243	
Actual Emissions/facility (tpy)	0.00	8.12	
Ozone Season Day (lbs/day)	0.0	49.9	
Operational Characteristics			
Average hours/yr	4,611		
Average capacity (%)	26.0		

Table 5-7. Model Plant Emissions: SIC 3354 (Aluminum Extruded Products)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Spray Booths	21.81	0.00	MAERT Averages
Alkaline Solution	0.04	0.00	MAERT Averages
Chromate Solution	0.02	0.00	MAERT Averages
Total	21.87	0.00	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	44,323	0	
Maximum Emissions/facility (tpy)	22.16	0.00	
Actual Emissions/facility (lbs/year)	16,252	0	
Actual Emissions/facility (tpy)	8.13	0.00	
Ozone Season Day (lbs/day)	44,323	0	
Operational Characteristics			
Average hours/yr	2,027		
Average capacity (%)	36.7		

Table 5-8. Model Plant Emissions: SIC 3363 (Aluminum Die-Castings)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Electric Furnace/Die Cast Machine #1	0.57	0.21	MAERT Averages
Electric Furnace/Die Cast Machine #2	0.57	0.21	MAERT Averages
Electric Furnace/Die Cast Machine #3	0.57	0.21	MAERT Averages
Electric Furnace/Die Cast Machine #4	0.57	0.21	MAERT Averages
Shot Blast Machine	n/a	0.10	MAERT Averages
Parts Polishing	n/a	0.06	MAERT Averages
Total	2.29	0.99	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	6,972	2,999	
Maximum Emissions/facility (tpy)	3.49	1.50	
Actual Emissions/facility (lbs/year)	3,486	1,500	
Actual Emissions/facility (tpy)	1.74	0.75	
Ozone Season Day (lbs/day)	6,972	2,999	
Operational Characteristics			
Average hours/yr	3,040		
Average capacity (%)	50.0		

Table 5-9. Model Plant Emissions: SIC 3365 (Aluminum Foundries)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Melt Furnace #1	0.00	0.61	MAERT Averages
Melt Furnace #2	0.00	0.61	MAERT Averages
Melt Furnace #3	0.00	0.61	MAERT Averages
Melt Furnace #4	0.00	0.61	MAERT Averages
Melt Furnace #5	0.00	0.61	MAERT Averages
Melt Furnace #6	0.00	0.61	MAERT Averages
Melt Furnace #7	0.00	0.61	MAERT Averages
Rap Room Dust Control	0.00	0.60	MAERT Averages
Parts Polishing	0.00	0.60	MAERT Averages
Total	0.00	5.45	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	0	33,987	
Maximum Emissions/facility (tpy)	0.00	16.99	
Actual Emissions/facility (lbs/year)	0	4,807	
Actual Emissions/facility (tpy)	0.00	2.40	
Ozone Season Day (lbs/day)	0	33,987	
Operational Characteristics			
Average hours/yr	6,240		
Average capacity (%)	14.1		

Table 5-10. Model Plant Emissions: SIC 3369 (Nonferrous Foundries, Not Elsewhere Classified)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Shell and Penetrant Inspection	0.38	0.00	MAERT Averages
Casters #1	0.00	0.01	MAERT Averages
Casters #2	0.00	0.01	MAERT Averages
Casters #3	0.00	0.01	MAERT Averages
Casters #4	0.00	0.01	MAERT Averages
Can Slammer	0.00	6.87	MAERT Averages
Dust Collection	0.00	3.46	MAERT Averages
Total	0.38	10.37	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	3,320	90,592	
Maximum Emissions/facility (tpy)	1.66	45.30	
Actual Emissions/facility (lbs/year)	1,660	45,296	
Actual Emissions/facility (tpy)	0.83	22.65	
Ozone Season Day (lbs/day)	3,320	90,592	
Operational Characteristics			
Average hours/yr	8,736		
Average capacity (%)	50.0		

Table 5-11. Model Plant Emissions: SIC 3441 (Fabricated Structural Metal)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Paint Booth #1	49.68	0.01	MAERT Averages
Paint Booth #2	49.68	0.01	MAERT Averages
Abrasive Cleaning	n/a	0.32	MAERT Averages
Total	99.362	0.34	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	336,312	1,134	
Maximum Emissions/facility (tpy)	168.16	0.57	
Actual Emissions/facility (lbs/year)	168,156	567	
Actual Emissions/facility (tpy)	84.08	0.28	
Ozone Season Day (lbs/day)	466.5	1.6	
Operational Characteristics			
Average hours/yr	3,385		
Average capacity (%)	50.0		

Table 5-12. Model Plant Emissions: SIC 3443 (Fabricated Plate Work, Boiler Shops)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Paint Booth	29.60	n/a	MAERT Averages
Blasting	n/a	4.60	MAERT Averages
Total	29.600	4.60	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	86,856	13,491	
Maximum Emissions/facility (tpy)	43.43	6.75	
Actual Emissions/facility (lbs/year)	9,554	1,484	
Actual Emissions/facility (tpy)	4.78	0.74	
Ozone Season Day (lbs/day)	24.4	3.8	
Operational Characteristics			
Average hours/yr	2,934		
Average capacity (%)	11.0		

Table 5-13. Model Plant Emissions: SIC 3471 (Plating and Polishing)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Paint Booth	5.50	0.310	MAERT Averages
Blasting	0.00	2.85	MAERT Averages
Chrome Scrubber Stack #1	0.00	0.00	MAERT Averages
Chrome Scrubber Stack #2	0.00	0.00	MAERT Averages
Total	5.50	3.17	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	21,249	12,222	
Maximum Emissions/facility (tpy)	10.62	6.11	
Actual Emissions/facility (lbs/year)	10,908	6,274	
Actual Emissions/facility (tpy)	5.45	3.14	
Ozone Season Day (lbs/day)	30.4	17.5	
Operational Characteristics			
Average hours/yr	3,861		
Average capacity (%)	51.3		

Table 5-14. Model Plant Emissions: SIC 3479 (Metal Coating and Allied Services)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Abrasive Blasting	0.000	0.5733	MAERT Averages
Zinc Kettle #1	0.000	0.2646	MAERT Averages
Zinc Kettle #2	0.000	0.2646	MAERT Averages
Paint Booth	2.176	0.0000	MAERT Averages
Total	2.176	1.1025	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	9,994	5,065	
Maximum Emissions/facility (tpy)	5.00	2.53	
Actual Emissions/facility (lbs/year)	5,197	2,634	
Actual Emissions/facility (tpy)	2.60	1.32	
Ozone Season Day (lbs/day)	14.2	7.2	
Operational Characteristics			
Average hours/yr	4,594		
Average capacity (%)	52.0		

Table 5-15. Model Plant Emissions: SIC 3499 (Fabricated Metal Products, Not Elsewhere Classified)

Model Plant Component	VOC (lbs/hr)	PM_{10} (lbs/hr)	Basis for Estimate
Abrasive Blasting	0.00	0.39	MAERT Averages
Paint Booth	6.44	0.65	MAERT Averages
Total	6.44	1.04	
Total Model Plant Emissions	**VOC (lbs/hr)**	**PM_{10} (lbs/hr)**	
Maximum Emissions/facility (lbs/year)	21,960	3,549	
Maximum Emissions/facility (tpy)	10.98	1.77	
Actual Emissions/facility (lbs/year)	10,614	1,715	
Actual Emissions/facility (tpy)	5.31	0.86	
Ozone Season Day (lbs/day)	30.9	5.0	
Operational Characteristics			
Average hours/yr	3,413		
Average capacity (%)	48.3		

Table 5-16. 2005 Texas Statewide Emissions for Minor Point Sources Estimated Under WO#24

Point Source SIC Area Source SCC	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
2013 (Sausages & Other Prepared Meats) 2302010000 (Industrial Processes – Food and Kindred Products – Meat Products)	104	323.4	45.3	246.8	218.1	30.5	166.4
2041 (Flour & Other Grain Mill Products) 2302040000 (Industrial Processes – Food and Kindred Products – Grain Mill Products)	17	0.0	0.0	0.0	643.4	336.7	1,835.0
2048 (Prepared Feeds, Not Elsewhere Classified) 2302040000 (Industrial Processes – Food and Kindred Products – Grain Mill Products)	105	0.0	0.0	0.0	2,920.2	924.7	5,039.5
2051 (Bread, Cake, & Related Products) 2302050000 (Industrial Processes – Food and Kindred Products – Bakery Products)	93	0.0	0.0	0.0	146.2	52.0	283.2
2421 (Sawmills & Planing Mills, General) 2307020000 (Industrial Processes – Wood Products – Sawmills/Planing Mills)	74	0.0	0.0	0.0	788.2	366.5	2,022.4
2491 (Wood Preserving) 2307060000 (Industrial Processes – Wood Products – Miscellaneous Wood Products)	21	0.0	0.0	0.0	656.0	170.6	1,047.1
3354 (Aluminum Extruded Products) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	8	177.3	65.0	354.3	0.0	0.0	0.0
3363 (Aluminum Die Castings) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	7	24.4	12.2	66.8	10.5	5.2	28.8
3365 (Aluminum Foundries) 2304050000 (Industrial Processes – Secondary Metal Production – Nonferrous Foundries)	21	0.0	0.0	0.0	356.9	50.5	275.0
3369 (Nonferrous Foundries, Not Elsewhere Classified) 2304050000 (Industrial Processes – Secondary Metal Production – Nonferrous Foundries)	3	5.0	2.5	13.6	135.9	67.9	370.3
3441 (Fabricated Structural Metal) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	257	43,216.1	21,608.1	119,897.4	145.7	72.9	404.2
3443 (Fabricated Plate Work, Boiler Shops) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	230	9,988.5	1,098.7	5,610.9	1,551.4	170.7	871.5
3471 (Plating & Polishing) 2309100010 (Industrial Processes – Fabricated Metals – Coating, Engraving, and Allied Services – Electroplating)	126	1,338.7	687.2	3,829.2	770.0	395.3	2,202.4
3479 (Metal Coating & Allied Services) 2309100080 (Industrial Processes – Fabricated Metals – Coating, Engraving, and Allied Services – Hot Dip Zinc Galvanizing)	137	684.6	356.0	1,941.3	346.9	180.4	983.8
3499 (Fabricated Metal Products, Not Elsewhere Classified) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	141	1,548.2	748.3	4,361.0	250.2	120.9	704.8
Total Inventory	**1,344**	**57,306.2**	**24,623.2**	**136,321.2**	**8,939.6**	**2,944.8**	**16,234.4**

Table 5-17. 2008 Texas Statewide Emissions for Minor Point Sources Estimated Under WO#24

Point Source SIC Area Source SCC	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
2013 (Sausages & Other Prepared Meats) 2302010000 (Industrial Processes – Food and Kindred Products – Meat Products)	104	323.4	45.3	246.8	218.1	30.5	166.4
2041 (Flour & Other Grain Mill Products) 2302040000 (Industrial Processes – Food and Kindred Products – Grain Mill Products)	18	0.0	0.0	0.0	681.3	356.5	1,942.9
2048 (Prepared Feeds, Not Elsewhere Classified) 2302040000 (Industrial Processes – Food and Kindred Products – Grain Mill Products)	104	0.0	0.0	0.0	2,892.4	915.9	4,991.5
2051 (Bread, Cake, & Related Products) 2302050000 (Industrial Processes – Food and Kindred Products – Bakery Products)	100	0.0	0.0	0.0	157.2	55.9	304.5
2421 (Sawmills & Planing Mills, General) 2307020000 (Industrial Processes – Wood Products – Sawmills/Planing Mills)	78	0.0	0.0	0.0	830.8	386.3	2,131.7
2491 (Wood Preserving) 2307060000 (Industrial Processes – Wood Products – Miscellaneous Wood Products)	23	0.0	0.0	0.0	718.5	186.8	1,146.9
3354 (Aluminum Extruded Products) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	8	177.3	65.0	354.3	0.0	0.0	0.0
3363 (Aluminum Die Castings) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	8	27.9	13.9	76.4	12.0	6.0	32.9
3365 (Aluminum Foundries) 2304050000 (Industrial Processes – Secondary Metal Production – Nonferrous Foundries)	21	0.0	0.0	0.0	356.9	50.5	275.0
3369 (Nonferrous Foundries, Not Elsewhere Classified) 2304050000 (Industrial Processes – Secondary Metal Production – Nonferrous Foundries)	3	5.0	2.5	13.6	135.9	67.9	370.3
3441 (Fabricated Structural Metal) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	280	47,083.7	23,541.9	130,627.5	158.7	79.4	440.4
3443 (Fabricated Plate Work, Boiler Shops) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	253	10,987.3	1,208.6	6,172.0	1,706.6	187.7	958.6
3471 (Plating & Polishing) 2309100010 (Industrial Processes – Fabricated Metals – Coating, Engraving, and Allied Services – Electroplating)	129	1,370.6	703.6	3,920.4	788.3	404.7	2,254.9
3479 (Metal Coating & Allied Services) 2309100080 (Industrial Processes – Fabricated Metals – Coating, Engraving, and Allied Services – Hot Dip Zinc Galvanizing)	153	764.5	397.6	2,168.0	387.4	201.5	1,098.7
3499 (Fabricated Metal Products, Not Elsewhere Classified) 2309000000 (Industrial Processes – Fabricated Metals – All Processes)	152	1,669.0	806.7	4,701.2	269.7	130.4	759.8
Total Inventory	**1,434**	**62,408.7**	**26,785.0**	**148,280.1**	**9,313.8**	**3,060.0**	**16,874.4**

due to an increased number of facilities for the 15 SICs (i.e., 1,344 total facilities in 2005 and 1,434 total facilities in 2008).

Compared to the total area source emissions contained in the 2002 National Emissions Inventory for Texas (i.e., 700,664 tpy VOC and 2,309,206 tpy PM_{10}), the 2005 and 2008 VOC emissions for the 15 SICs are somewhat significant (i.e., 3.5 and 3.8 percent, respectively), while the PM_{10} emissions for the 15 SICs are comparatively minor (i.e., on the order of 0.1 percent).

It should be noted that the results of the MPS Phase 1 project conducted in 2007 are not directly comparable to the results from this MPS Phase 3 project, for several reasons, including:

- The MPS Phase 1 results were based on emissions for sources at the 2-digit SIC level, which comprise many more facilities than were included in the Phase 3 study. For example:
  - For SIC 20 (Food and Kindred Products), Phase 1 included sources within 49 possible 4-digit SICs while Phase 3 included sources within only 4 4-digit SICs;
  - For SIC 24 (Lumber and Wood Products), Phase 1 included sources within 17 possible 4-digit SICs while Phase 3 included sources within only 2 4-digit SICs;
  - For SIC 33 (Primary Metal Industries, Miscellaneous), Phase 1 included sources within 26 possible 4-digit SICs while Phase 3 included sources within only 4 4-digit SICs; and
  - For SIC 34 (Fabricated Metal Products), Phase 1 included sources within 38 possible 4-digit SICs, while Phase 3 included sources within only 5 4-digit SICs.

  Therefore, there were 115 fewer 4-digit SIC groups included in MPS Phase 3 as compared to MPS Phase 1.
- The methods used to identify the number of facilities within the subject SIC groups were quite different between Phase 1 and Phase 3. For Phase 1, information from various TCEQ databases based on existing RN numbers were used to identify the universe of possible sources within each SIC group. However, for Phase 3, survey data combined with facility counts obtained from the *County Business Patterns* were used to identify the universe of possible sources.

These are the main reasons that the results between the MPS Phase 1 and Phase 3 studies are not directly comparable.

The most significant VOC emissions category for both 2005 and 2008 is SIC 3441 (Fabricated Structural Metal) which contributed nearly 88 percent of the total VOC emissions for the 15 SICs estimated under Work Order #24. It should be noted that these VOC emissions are entirely from paint booths that were identified as facility commonalities and incorporated into the model plant for SIC 3441 (see Table 5-11). Similarly, paint booths were included in the model plants for five other SICs (i.e., 3354, 3443, 3471, 3479, and 3499). It is possible that double-counting is occurring between the VOC emissions estimated for these six SICs and VOC

emissions included in the Texas emissions inventories under the industrial surface coating categories (i.e., SCC 2401xxxxxx). For details on possible steps to reconcile this potential double-counting, see Section 5.2, below.

5.1 Quality Assurance

During the development of the model plant emissions, several quality assurance steps were conducted. As part of the determination of the number of county-level facilities for each SIC, facility counts from *County Business Patterns*, as well as major point source information, were checked for accuracy. In addition, at several points during the determination of candidate SICs, intermediate results were checked to ensure that the methodology was being implemented correctly. As process commonalities were analyzed, survey data were checked to confirm accuracy. The model plant emission spreadsheets were also checked for potential calculation errors. Any and all errors found were corrected.

5.2 Area Source Emissions Inventory Reconciliation

After assigning the 9 "best fit" 10-digit area source SCCs to the 15 SICs for which model plants were being developed, these area source SCCs were then compared against the 2002 Texas area source inventory. For purposes of this comparison, the 2002 Texas area source emissions contained in the 2002 NEI were used. Examination of the 2002 NEI emissions revealed that two of the "best fit" SCCs (i.e., 2302050000 and 2309100010) from the Work Order #24 inventory also existed in the 2002 NEI.

The reported 2002 NEI emissions for SCC 2302050000 (Industrial Processes – Food and Kindred Products – Bakery Products) were limited to VOC emissions and did not include PM_{10} emissions. The 2002 NEI VOC emissions are due to the generation of ethanol during yeast leavening of baked goods, while the minor point source emissions estimated for this SCC (i.e., SIC 2051 [Bread, Cake, & Related Products]) were limited to PM_{10} emissions from flour silos. The reported 2002 NEI emissions for SCC 2309100010 (Industrial Processes – Fabricated Metals – Coating, Engraving, and Allied Services – Electroplating) were limited to chromium and chromium compounds and did not include VOC or PM_{10} emissions. Since the process emissions (VOC and PM_{10}) developed under this Work Order #24 for these two SCCs are not reported in the 2002 NEI Texas area source inventory, no reconciliation is needed for these categories.

With regard to the potential double-counting of VOC paint booth emissions estimated for SICs 3354, 3441, 3443, 3471, 3479, and 3499 discussed in Section 5.0, it is not possible to easily reconcile this potential double-counting because different estimation methods were used. The Texas industrial surface coating VOC emissions were estimated using per employee emission factors and SIC-specific employee counts, while the VOC emissions for the six SICs were estimated under Work Order #24 using survey data and model plants. In order to reconcile this potential double-counting, detailed SIC-specific employee counts would need to be obtained for both the SICs used to estimate industrial surface coating emissions in the existing Texas

inventories, as well as for the six SICs addressed in Work Order #24. If corresponding SICs are identified, then the number of employees used for the Work Order #24 SIC would need to be subtracted from the number of employees used in the existing Texas inventories and emissions would need to be recalculated. If corresponding SICs are not identified, then reconciliation is not needed.

5.3 Data Formatting

The final 2005 and 2008 statewide emissions for the 15 SICs/SCCs at the county level were compiled by ERG and provided to TCEQ in two formats, as described below:

- Text files using National Emissions Inventory Format (NIF) 3.0 format suitable for entry into TexAER: one file contains 2005 actual tpy emissions, and 2005 OSD lbs/day emissions; a second file contains 2005 maximum annual tpy emissions.
- Data file as required for submittal to the U.S. EPA 2008 Emissions Inventory System (EIS).

These files have been provided to the TCEQ Project Manager.

5.4 Growth Factors

In addition to the emissions inventory development, annual growth factors from 2009 through 2021 were developed for the 15 Phase 3 SICs, as well as the 5 Phase 2 SICs. These growth factors were provided to TCEQ in an electronic spreadsheet file.

The bases of the growth factors were county-level gross product projections (in constant 2000 dollars) disaggregated by 4-digit NAICS code obtained from Economy.com's Data Buffet, which TCEQ is currently able to access. Using a base year of 2008, the growth factor for a particular future year was estimated by taking the ratio of the gross product projection for that future year divided by the historical gross product for 2008. County-level growth factors for each of the following 4-digit NAICS codes and associated SICs for each year (2009 through 2021) were developed:

- NAICS 3111xx (Animal Food Manufacturing) – SIC 2048
- NAICS 3112xx (Grain and Oilseed Milling) – SIC 2041
- NAICS 3116xx (Animal Slaughtering and Processing) – SIC 2013
- NAICS 3118xx (Bakeries and Tortilla Manufacturing) – SIC 2051
- NAICS 3211xx (Sawmills and Wood Preservation) – SICs 2421 and 2491
- NAICS 3241xx (Petroleum and Coal Products Manufacturing) – SIC 2951
- NAICS 3273xx (Cement and Concrete Product Manufacturing) – SICs 3271, 3272, and 3273
- NAICS 3279xx (Other Nonmetallic Mineral Product Manufacturing) – SIC 3295
- NAICS 3313xx (Alumina and Aluminum Production and Processing) – SIC 3354
- NAICS 3315xx (Foundries) – SICs 3363, 3365, and 3369
- NAICS 3323xx (Architectural and Structural Metal Manufacturing) – SIC 3441
- NAICS 3324xx (Boiler, Tanks, and Shipping Container Manufacturing) – SIC 3443

- NAICS 3328xx (Coating, Engraving, Heat Treating, and Allied Activities) – SICs 3471 and 3479
- NAICS 3329xx (Other Fabricated Metal Product Manufacturing) – SIC 3499

The growth factors are strictly economy-based (i.e., based on growth product projections). It should be noted that recent investigations by U.S. EPA and others have indicated that the long-held assumption that emissions growth is proportional to economic growth may not be true for non-energy sectors. The U.S. EPA has analyzed emissions trends and determined that for some sectors, emissions have actually decreased over time due to such factors as: technological innovation or changes altering production processes for emission sources; control technologies available; substitution of inputs to production (e.g., fuel switching); and, emission controls implemented to satisfy Clean Air Act regulations, voluntary programs and other initiatives expected to reduce air emissions.[6] As a result of the U.S. EPA's on-going analysis, future growth factors for the non-energy sectors will expand beyond simple economic projections. Under a proposed future TCEQ project, a comprehensive set of point and area source annual growth factors for the period from 2005 to 2035 may be developed. This study will examine economic growth projections, as well as energy and other projections. It is possible that the growth factors developed for the proposed future TCEQ project may supersede the growth factors developed for this project.

[6] "Improving EPA's Emissions Forecasting," Presentation to the 16th Annual Emission Inventory Conference, Portland Oregon, May 17, 2007. Accessed at: http://www.epa.gov/ttn/chief/conference/ei16/session7/chappell_pres.pdf

APPENDIX A:

LISTING OF 738 FACILITIES WITHIN SURVEY FRAME

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN102315207	2011	T20001	SURLEAN MEAT CO.
RN102418688	2011	T20002	Texas Dept. of Criminary Justice, Michael Unit
RN102496007	2011	T20003	EDDY PACKING COMPANY
RN102855855	2011	T20004	L & H PACKING
RN103009189	2011	T20005	YOAKUM PACKING
RN104609029	2011	T20006	CAVINESS PACKING
RN105681274	2011	T20007	DALHART PROCESSING PLANT
RN100636661	2013	T20008	TYSON REFRIGERATED PROCESSED MEATS
RN100758937	2013	T20009	SARA LEE
RN101976496	2013	T20010	DOUBLE B FOODS
RN102412723	2013	T20011	INTRNTL TRADING PORTWALL ST
RN102694791	2013	T20012	QUICK TO FIX FOODS, RANGE DR FACILITY
RN100730191	2015	T20013	INTERNATIONAL INGREDIENT CORPORATION, CLEBURNE PLANT
RN101433258	2015	T20014	TYSON FARMS SEGUIN PROCESSING PLANT
RN101514636	2015	T20015	TYSON FARMS
RN102570389	2015	T20016	MAHARD EGG FARM INC., VERNON FARM
RN105281968	2015	T20017	ALLIGATOR CREEK FARMS
RN105375893	2015	T20018	HARVEY HOUSES
RN105382642	2015	T20019	VONGONTEN STANLEY
RN105635544	2015	T20020	HOA PHAN BREEDER HOUSES
RN102780665	2022	T20021	SCHREIBER FOODS
RN104968912	2022	T20022	HILMAR CHEESE
RN100810126	2023	T20023	CREAMLAND DAIRIES INC, PRICES CREAMERIES
RN101125086	2023	T20024	EAGLE FAMILY FOODS
RN101625945	2024	T20025	HEB RETAIL SUPPORT CENTER
RN103121034	2024	T20026	BLUE BELL CREAMERIES
RN105205900	2024	T20027	BLUE BELL CREAMERIES SNACK PLANT
RN100569680	2026	T20028	THE DANNON COMPANY
RN100683119	2026	T20029	VANDERVOORT DAIRY FOODS
RN100717149	2026	T20030	SCHEPPS DAIRY
RN101824340	2026	T20031	PLAINS CREAMERY
RN102612538	2026	T20032	RITTIMAN ROAD COMPLEX
RN100837939	2033	T20033	TEXAS CITRUS EXCHANGE
RN102956117	2033	T20034	DEL MONTE FOODS CRYSTAL CITY PLANT 250
RN102415353	2035	T20035	NORTH TEXAS CEMENT COMPANY
RN103120762	2037	T20036	MAGIC VALLEY FRESH FROZEN FOODS SOUTH MCALLEN FACILITY
RN103670808	2037	T20037	CITRICOS INTERNATIONAL
RN103887634	2037	T20038	MAGIC VALLEY FRESH FROZEN
RN100838135	2038	T20039	RICH SEAPAK
RN101776367	2038	T20040	21ST CENTURY FOODS
RN104762638	2038	T20041	RUIZ FOOD PRODUCTS INC., DENISON PLANT
RN104965116	2038	T20042	COASTAL FOODS
RN100746262	2041	T20043	CONAGRA FOOD INGREDIENTS
RN100770072	2041	T20044	CONAGRA FLOUR MILL SHERMAN
RN100794882	2041	T20045	C H GUENTHER SON INCORPORATED, THE MORRISON MILLING COMPANY
RN100839521	2041	T20046	AZTECA MILLING
RN100898527	2041	T20047	HORIZON MILLING GALENA PARK FACILITY
RN101071975	2041	T20048	JUPE MILLS
RN102508918	2041	T20049	BIG COUNTRY GRAIN TUSCOLA BRANCH
RN102541273	2041	T20050	ADM MILLING CO., FLOUR MOISTURIZER

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN102597200	2041	T20051	MINSA CORPORATION
RN103037222	2041	T20052	FEEDERS SUPPLY SULPHUR SPRINGS
RN103710455	2041	T20053	ADM MILLING H DITTLINGER ROLLER MILLS
RN103990974	2041	T20054	LIVENGOOD FEEDS
RN104425947	2041	T20055	FARGAM LAND & GRAIN
RN100674654	2043	T20056	THE HAIN CELESTIAL GROUP INC., ARROWHEAD MILLS GRAIN ELEVATOR
RN100899715	2044	T20057	RICE BELT WAREHOUSE INC - ALVIN DIVISION
RN101627800	2044	T20058	BEAUMONT RICE MILLS
RN104201009	2044	T20059	RICE BELT PLANT B
RN104202577	2044	T20060	TEXAS BEST ORGANIC RICE MILL
RN100773167	2045	T20061	CAIN FOOD INDUSTRIES (BREAD ADDITIVES)
RN105452072	2046	T20062	MOLINOS ANAHUAC INC., MACSA FACILITY
RN100820042	2047	T20063	VALLEY BY PRODUCTS
RN100963834	2047	T20064	DOANE PET CARE
RN101994010	2047	T20065	PURINA MILLS
RN102412152	2047	T20066	PIED PIPER PET AND WILDLIFE
RN102545167	2047	T20067	MASTERFOODS USA
RN102580396	2047	T20068	PET FOOD PLT
RN100560978	2051	T20069	BIMBO BAKERIES USA INC, MRS BAIRDS BAKERY
RN102035623	2051	T20070	BIMBO BAKERIES USA INC., MRS BAIRDS BAKERY
RN102042066	2051	T20071	BIMBO BAKERIES USA INC, MRS BAIRDS BAKERY
RN102309762	2051	T20072	HEB CORPUS CHRISTI RETAIL SUPPORT CENTER
RN103170825	2051	T20073	EARTHGRAINS BAKING COMPANY
RN104222740	2051	T20074	FLOWERS BAKING DENTON
RN102907995	2068	T20075	JOHN B SANFILIPPO SON INC., SUNSHINE NUT
RN102287257	2077	T20076	NUTRI-FEEDS
RN102510021	2077	T20077	PILGRIMS PRIDE CORPORATION, WALKER CREEK PROTEIN CONVERSION PLANT
RN102737269	2077	T20078	KANE BEEF PROCESSORS INC
RN102754652	2077	T20079	SOFIA ENTERPRISES LP, HTC INDUSTRIES
RN105364459	2077	T20080	NIXON PLANT
RN105668206	2077	T20081	JMV RENDERING
RN102897584	2079	T20082	ELGIN COTTON OIL MILL
RN102305562	2086	T20083	COCA-COLA NORTH AMERICA WACO PLANT
RN102599016	2086	T20084	COCA-COLA SAN ANTONIO REMANUFACTURING FACILITY
RN103210712	2086	T20085	LONE STAR BEVERAGE
RN100582584	2087	T20086	PEPSICO ARLINGTON
RN100721398	2091	T20087	WILLIAMSON COUNTY GRAIN INC OILMILL ELEVATOR
RN100735034	2092	T20088	REHEIS CHEMICAL COMPANY
RN101955292	2092	T20089	HILLMAN SHRIMP & OYSTER
RN102562840	2095	T20090	DECOTY COFFEE
RN102608114	2095	T20091	CADECO INDUSTRIES
RN102412921	2096	T20092	FRITO LAY ENVIRONMENTAL SYSTEMS SAN ANTONIO
RN102738929	2096	T20093	SHEARERS FOODS LUBBOCK
RN102840329	2096	T20094	RIO GRANDE SNACK COMPANY
RN102976370	2096	T20095	RUDOLPH FOODS DALLAS FACILITY
RN100547512	2097	T20096	REDDY ICE DALLAS PLANT
RN100554906	2097	T20097	REDDY ICE SAN ANTONIO 1
RN100698638	2097	T20098	REDDY ICE
RN101229888	2097	T20099	REDDY ICE HOUSTON
RN102236205	2097	T20100	REDDY ICE

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN103209326	2097	T20101	REDDY ICE LAREDO
RN103209466	2097	T20102	REDDY ICE POWDERLY
RN103729646	2097	T20103	REDDY ICE, LOCATION 306 EL PASO
RN103764544	2097	T20104	REDDY ICE AUSTIN
RN103764825	2097	T20105	REDDY ICE HARLINGEN
RN105292718	2097	T20106	REDDY ICE-CORPUS CHRISTI
RN100738830	2099	T20107	MIZKAN AMERICAS
RN100880947	2099	T20108	MINH FOODS
RN103000196	2099	T20109	TIA ROSA GRAND PRAIRIE PLANT
RN103007753	2099	T20110	AB MAURI FOOD INC., FLEISCHMANNS YEAST
RN103937959	2099	T20111	SOUTHWEST GUAR COOPERATIVE ASSOCIATION
RN104336508	2099	T20112	CHS FOODS
RN104518345	2099	T20113	SOUTHWEST BEANMAKERS, SAGINAW PLANT
RN102188364	2011	T20114	Swift & Company - Swift Beef Plant
RN104808613	2015	T20115	Sanderson Farms, Inc.
RN102537206	2026	T20116	HEB QUALITY ASSURANCE, SARSC
RN101529329	2037	T20117	PICTSWEET
RN100724053	2038	T20118	NIGHT HAWK FROZEN FOODS LTD
RN100892132	2044	T20119	RICETEC INC
RN100892157	2044	T20120	GULF RICE CO. INC. (BROWN RICE MILL)
RN104331426	2044	T20121	COLORADO COUNTY RICE MILL
RN101936888	2068	T20122	DOYLE WELCH ENTERPRISES, PEANUT BUYING FACILITY
RN100803766	2099	T20123	PILLSBURY CO
RN100889849	2099	T20124	SILESTONE OF HOUSTON
RN102519980	2099	T20125	RENDERING PLANT
RN103036166	2099	T20126	Frito-Lay Inc
RN102213907	2411	T24001	SOUTHERN FOREST PRODUCTS LLC, BON WIER SAWMILL
RN103972436	2411	T24002	GILMER LOGYARD
RN100885813	2421	T24003	LONG BEACH SHAVINGS CO INC., TEXPAK
RN101523884	2421	T24004	ANTHONY FOREST PRODUCTS CO
RN101561058	2421	T24005	RICHARDSON LUMBER & MFG CO
RN101667202	2421	T24006	TEX O CAL HARDWOODS
RN101858132	2421	T24007	ANGELINA HARDWOOD SALES CO
RN101975993	2421	T24008	TOM HART LUMBER
RN102205333	2421	T24009	ANTHONY FOREST PRODUCTS COMPANY, CHIP MILL
RN102569860	2421	T24010	CLW LIVINGSTON LUMBER MILL
RN102575099	2421	T24011	THE WONDER COMPANY
RN103208989	2421	T24012	CARRIZO WOOD PRODUCTS
RN103943379	2421	T24013	ELDER HARDWOODS
RN104048129	2421	T24014	WOODEN NICKEL SAWMILL
RN105272355	2421	T24015	MESQUITE FUELS AGRICULTURE INC, HAMLIN SAWMILL
RN105379986	2421	T24016	STEELY LUMBER CO INC., HARDWOOD MAT SAW MILL
RN105609986	2421	T24017	SNIDER INDUSTRIES LLP (PORTABLE PARTS WASHER NO 1)
RN104368550	2429	T24018	AGRI TEX WOOD SHAVINGS FACILITY
RN100549187	2431	T24019	PREMDOR
RN100570738	2431	T24020	COLUMBIA MANUFACTURING
RN100616077	2431	T24021	PANEL PROCESSING OF TEXAS
RN100828425	2431	T24022	CLIFTON MOULDING
RN102199486	2431	T24023	OHAIR EAST FACILITY
RN102294568	2431	T24024	VTI OF TEXAS

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN102534757	2431	T24025	FRAMESAVER WOODWORKING PLANT
RN103952446	2431	T24026	DISTINCTIVE DOORS
RN104398227	2431	T24027	THE SHUTTER FACTORY
RN104997499	2431	T24028	MARSHALL WOOD PRODUCTS PLANT
RN105587117	2431	T24029	GLASSCRAFT DOOR COMPANY
RN100612761	2434	T24030	KENT MOORE CABINETS LTD, STONE CITY DRIVE PLANT
RN100736370	2434	T24031	B & W CABINETS
RN100757806	2434	T24032	NORTH TEXAS HARDWOODS AND MILLWORK
RN100764133	2434	T24033	HEARTLAND FURNITURE
RN100802404	2434	T24034	TRI TEX CABINETS
RN103130076	2434	T24035	CABINET SHOP INC
RN103906665	2434	T24036	CABINET SPECIALISTS
RN104597901	2434	T24037	QUALITY CABINETS WAREHOUSE
RN104602982	2434	T24038	MILLCO INTERNATIONAL
RN104750849	2441	T24039	FREIGHT CRAFTERS PARTNERSHIP
RN100778430	2448	T24040	SUMMERS PALLET SERVICE
RN103768412	2448	T24041	METROPLEX WOOD PRODUCTS
RN105337539	2448	T24042	BRAMBLES NORTH AMERICA INCORPORATED, CHEP USA
RN105382295	2448	T24043	GREATWIDE DISTRIBUTION
RN105512420	2448	T24044	BRAMBLES NORTH AMERICA INCORPORATED, CHEP USA PALLET SERVICE CENTER
RN105514632	2448	T24045	CHEP USA LUBBOCK PALLET SERVICE CENTER
RN105665160	2448	T24046	TOTAL WAREHOUSING
RN100738715	2449	T24047	HOFFMAN CABINETS
RN100809847	2449	T24048	THE MARCO COMPANY
RN104768312	2449	T24049	MARCO DISPLAY SPECIALISTS PROTOTYPE PLANT
RN104995972	2449	T24050	MARCO DISPLAY SPECIALISTS GODLEY PLANT
RN105587844	2449	T24051	MARCO DISPLAY SPECIALISTS GP LC, EVERMAN PLANT
RN100694223	2451	T24052	CAVCO INDUSTRIES
RN101293058	2451	T24053	KARSTEN HOMES BRECKENRIDGE PLANT
RN102092939	2451	T24054	CLAYTON HOMES WACO II
RN102886975	2452	T24055	SHELTER ONE
RN105295810	2452	T24056	CHAPMAN BUILDING SYSTEMS INC., WOOD BUILDING PRODUCTS COATING FACILITY
RN101638906	2491	T24057	LUFKIN CREOSOTING
RN101640043	2491	T24058	GREAT SOUTHERN WOOD OF TEXAS
RN104196571	2493	T24059	PARTICLEBOARD DIBOLL
RN104448576	2493	T24060	GAS PACKAGE BOILER
RN100667500	2499	T24061	CHC INDUSTRIES
RN100686112	2499	T24062	INTERNATIONAL FOREST PRODUCTS
RN100704089	2499	T24063	ROCK TENN GREENVILLE
RN100770429	2499	T24064	BRECO WOOD PRODUCTS
RN105134522	2499	T24065	CHRISTOPHER LUMBER COMPANY
RN102893302	2411	T24066	DINA INDUSTRIES INC.
RN103156089	2411	T24067	FOREST OGLETREE PRODUCTS, OGLETREE TRENCH BURNER
RN100868553	2421	T24068	LINCOLN LUMBER LP
RN100898097	2421	T24069	HIXSON LUMBER SALES, SAWMILL WITH DRY KILN
RN101064079	2421	T24070	HYPONEX CORP
RN102555356	2421	T24071	ROSS LUMBER CO
RN102645223	2421	T24072	ANGELINA LUMBER (ANGELINA TREE WORKS)
RN105618953	2421	T24073	STICE SAWMILL
RN104336011	2429	T24074	AGRI-EMPRESA INC., STG TRANSPORTATION BARKSDALE SITE

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN100721174	2431	T24075	HARDWOOD PRODUCTS
RN100757574	2431	T24076	Atrium Patio Doors
RN105615975	2431	T24077	BASILEIA INVESTMENTS INC, OHAIR SHUTTERS TRENCH BURNER
RN102550902	2434	T24078	Benedettini Cabinetry
RN102722550	2448	T24079	WOODCRAFT OF TEXAS INC
RN102998846	2452	T24080	Combex Westhem LLC
RN104009519	2491	T24081	POSEY LUMBER
RN101642429	3312	T33001	INTERNATIONAL MILL SERVICE
RN102194461	3312	T33002	STRUCTURAL STEEL
RN103991162	3312	T33003	GREENS BAYOU PIPE MILL
RN101995926	3315	T33004	GERDAU AMERISTEEL US, CARROLLTON WIRE OPERATION
RN100670918	3316	T33005	TRIPPLE M OIL TOOL
RN100567668	3317	T33006	NORTHWEST PIPE HOUSTON
RN102184827	3317	T33007	US STEEL TUBULAR PRODUCTS INC., BELLVILLE OPERATIONS DIVISION
RN105377832	3317	T33008	IPSCO TEXAS INC, STEEL PIPE AND TUBE PRODUCTION FACILITY
RN100668672	3321	T33009	MCKINLEY IRON WORKS
RN100778547	3321	T33010	GAINESVILLE FOUNDRY
RN101946093	3321	T33011	ITT GOULDS PUMPS TURBINE OPERATION FOUNDRY
RN101972271	3321	T33012	PENATEK INDUSTRIES LIQUID FORGING PLANT
RN102301967	3321	T33013	TUBOSCOPE
RN103886289	3321	T33014	LONE STAR CASTING & MACHINE PARTNERS KILGORE
RN100599265	3324	T33015	HIGHLAND LAKES QUALITY CASTING
RN102144839	3324	T33016	SURE CAST
RN102934437	3324	T33017	CONSOLIDATED CASTING
RN100695279	3325	T33018	AMERICAN SPINCAST
RN102297298	3325	T33019	CENTRIFUGAL CASTINGS
RN100609908	3334	T33020	BASF CONSTRUCTION CHEMICALS
RN100902543	3339	T33021	ARSHAM METAL INDUSTRIES
RN100757046	3341	T33022	LEE SOLDER
RN102093531	3341	T33023	SEPRAMET
RN102293487	3341	T33024	C-KOE METALS LP, EULESS FACILITY
RN102914033	3341	T33025	PARKER HANNIFIN CORPORATION PARFLEX DIVISION
RN102962644	3341	T33026	HORSEHEAD VIDOR REACTOR PLANT
RN103939427	3341	T33027	TECHEMET GENOA RED BLUFF ROAD FACILITY
RN100673433	3351	T33028	SUMI TEXAS WIRE
RN100683531	3351	T33029	UNITED COPPER INDUSTRIES
RN104175484	3353	T33030	DRESSER RAND COMPRESSION SALES
RN101475192	3354	T33031	EL CAMPO ALUMINUM
RN103971164	3354	T33032	PENN ALUMINUM
RN100608918	3357	T33033	THERM O DISC MCGILL
RN100689207	3363	T33034	TEXAS DIE CASTING
RN100840271	3363	T33035	GIBBS-TEXAS DIE CASTING
RN102155470	3363	T33036	ORCHID INTERNATIONAL
RN102166634	3363	T33037	DYNACAST MFG ALUMINUM DIE CASTING PLANT
RN104797543	3363	T33038	VALLEY DIE CASTINGS INC
RN100832112	3364	T33039	DELTA CENTRIFUGAL
RN102510898	3364	T33040	NIBCO NACOGDOCHES PLANT
RN104789227	3364	T33041	HAMPSON AEROSPACE
RN100683697	3365	T33042	DEE FOUNDRIES
RN101054583	3365	T33043	WILSON WALTON INTERNATIONAL

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN102163664	3365	T33044	AA FOUNDRIES
RN102310703	3365	T33045	QUALITY CAST METALS
RN105271654	3365	T33046	DENISON INDUSTRIES
RN100675586	3366	T33047	O & D MANUFACTURING
RN100638071	3369	T33048	HOWMET CASTINGS AND SERVICES
RN100652304	3369	T33049	TEXAS METAL CASTING CO, LUFKIN FOUNDRY
RN101059038	3398	T33050	SUPERIOR SHOT PEENING
RN103942728	3398	T33051	SPRAYMETAL
RN100639236	3399	T33052	WALL COLMONOY
RN100854991	3399	T33053	NEWWATER BOAT WORKS
RN100973940	3399	T33054	ATOMIZED PRODUCTS GROUP
RN102997210	3399	T33055	JSW STEEL USA PIPE COATING DIVISION
RN104460191	3317	T33056	PIPING SYSTEMS INCORPORATED
RN100927433	3321	T33057	WEARALLOY, INC. (BLUE CREEK FOUNDRY)
RN100755958	3341	T33058	SASSIN AND SON ALUMINUM
RN103936639	3341	T33059	BISHOP ENGINE & AUTOMATIC
RN100834134	3351	T33060	PACKLESS INDUSTRIES
RN100746825	3357	T33061	CABLE LITE
RN100769033	3364	T33062	Kwikset Corp
RN103060042	3365	T33063	KIRBY CO
RN100835750	3399	T33064	HEARNE STEEL CO INC
RN102952983	3411	T34001	FAVELLE FAVCO CRANES USA INC
RN104802194	3411	T34002	BC FABRICATION
RN104815543	3411	T34003	ALEXANDERS MACHINE & MAINTENANCE SERVICE
RN105022735	3411	T34004	EAGLE RIG MANUFACTURING & SERVICE ODESSA FACILITY
RN105039796	3411	T34005	SALTYS MANUFACTURING
RN102923950	3412	T34006	AMERECON DRUM CLUTE FACILITY
RN105385033	3412	T34007	CLEVELAND STEEL CONTAINER KILGORE FACILITY
RN100856731	3423	T34008	STANLEY MECHANICS TOOLS
RN101299253	3429	T34009	HARTMAN ABILENE OPERATION
RN104953518	3433	T34010	CHART INDUSTRIES, CRYOGENIC SERVICES DIVISION
RN100567593	3441	T34011	MONOTECH OF TEXAS
RN100571082	3441	T34012	SIGNAL METAL INDUSTRIES
RN100614205	3441	T34013	INFINISTAR OILFIELD SERVICES
RN100634278	3441	T34014	VALMONT TEXAS
RN100657758	3441	T34015	SOUTHERN STEEL COMPANY
RN100674803	3441	T34016	CCC GROUP
RN100676220	3441	T34017	WENDLAND MANUFACTURING
RN100676972	3441	T34018	HOWE BAKER ENGINEERS
RN100688217	3441	T34019	MALIN
RN100716729	3441	T34020	RDS METAL FABRICATORS
RN100802222	3441	T34021	AMERICAN STEEL AND ALUMINUM
RN100819242	3441	T34022	JOHNSON PLATE & TOWER FABRICATION
RN101461176	3441	T34023	CAPITOL CITY STEEL
RN101472728	3441	T34024	MISCELLANEOUS STEEL INDUSTRIES
RN101862951	3441	T34025	GROGAN-HAZEL STEEL
RN101977684	3441	T34026	LIPPERT COMPONENTS
RN102004223	3441	T34027	FINE LINE METAL FABRICATORS
RN102203445	3441	T34028	GULF MARINE FABRICATORS SOUTH
RN102563673	3441	T34029	SOUTHEAST TEXAS INDUSTRIES INC., BUNA SITE

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN102601929	3441	T34030	W & W STEEL
RN102738770	3441	T34031	HARBOR ISLAND FABRICATORS
RN102803228	3441	T34032	WORLEY WELDING WORKS
RN102807211	3441	T34033	SOUTHEAST TEXAS INDUSTRIES
RN102862679	3441	T34034	HIRSCHFIELD STEEL GROUP LP, HIRSCHFELD GIRDER HEAVY FAB SHOP
RN102909033	3441	T34035	HIRSCHFELD STEEL GROUP MIDLAND SHOP
RN102919909	3441	T34036	DANA PEREZ (BERRY YARD)
RN103111571	3441	T34037	MCGUFFY SYSTEMS
RN103129565	3441	T34038	NEW ENGLAND LEAD BURNING COMPANY INC
RN103765665	3441	T34039	UNIGUS STEEL
RN103939740	3441	T34040	WATKINS ORNAMENTAL IRON COMMANDER
RN103941936	3441	T34041	DELTA STEEL CORPUS CHRISTI FACILITY
RN104177423	3441	T34042	ODESSA PLANT
RN104240007	3441	T34043	CHEROKEE STEEL FABRICATORS
RN104746201	3441	T34044	W & W RIG COMPONENTS
RN104863733	3441	T34045	STI NEDERLAND SHOP
RN104921184	3441	T34046	B&E RESOURCES
RN104982137	3441	T34047	NASCO STEEL
RN104992672	3441	T34048	CHART ENERGY CHEMICALS INC., CURTIS KELLY INDUSTRIAL ROAD SITE
RN105021893	3441	T34049	GULFSTAR MECHANICAL SERVICES BEAUMONT FACILITY
RN105211692	3441	T34050	HARRISON WALKER AND HARPER LP, CHISUM SITE & STEEL
RN105372536	3441	T34051	SOUTHERN COASTAL CONTRACTORS & SERVICES
RN105375737	3441	T34052	BIG M CONSTRUCTORS
RN105446959	3441	T34053	BOWHEAD MANUFACTURING COMPANY LOGISTIC SUPPORT
RN105555171	3441	T34054	IRWIN STEEL ERECTORS INC
RN100851997	3442	T34055	CREST METAL DOORS
RN101057305	3442	T34056	EMF COMPANY
RN101721918	3442	T34057	DOOR COMPONENTS LP, OLD WAREHOUSE
RN102581816	3442	T34058	DEANSTEEL MANUFACTURING
RN102603115	3442	T34059	PEARLAND INDUSTRIES
RN105441786	3442	T34060	TELL MANUFACTURING INC. (COATING BOOTH)
RN100561687	3443	T34061	STEEL PAINTERS
RN100622836	3443	T34062	PEERLESS MFG ABILENE
RN100638246	3443	T34063	VALERUS COMPRESSION SERVICES ODESSA FACILITY
RN100644806	3443	T34064	SIVALLS-BROWNWOOD PLANT
RN100740604	3443	T34065	THYSSEN STEARNS
RN100928068	3443	T34066	UNITED FABRICATING
RN101243772	3443	T34067	JETT WELD
RN101652667	3443	T34068	OHMSTEDE LTD
RN101849719	3443	T34069	OVERLAND TANK
RN101866788	3443	T34070	NATIONAL TANK COMPANY, NATCO GODLEY FACILITY
RN102412434	3443	T34071	PLANT NUMBER 16
RN102465556	3443	T34072	SAGE OIL FACILITY
RN102536224	3443	T34073	INDUSTRIAL METAL SPECIALTIES
RN102708203	3443	T34074	HOWE-BAKER ENGINEERS LTD, FM 850 FABRICATION SHOP
RN102773330	3443	T34075	NATCO GROUP
RN103111498	3443	T34076	EP INVESTMENTS AIR CONDITIONING ASSEMBLY PLANT
RN103111639	3443	T34077	WEST TEXAS CULVERTS
RN103205522	3443	T34078	POWERCON MECHANICAL INDUSTRIES
RN103211744	3443	T34079	UNITED VESSEL & TANK

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN103787214	3443	T34080	CHALLENGER PROCESS SYSTEMS
RN103858676	3443	T34081	GONZALES MANUFACTURING
RN103897914	3443	T34082	COOPER B-LINE
RN103971677	3443	T34083	CURTIS KELLY, INC.
RN104356175	3443	T34084	FAB INDUSTRIES
RN105135438	3443	T34085	UNITED VESSEL & TANK
RN105335483	3443	T34086	TITAN TANKS AND VESSELS LLC, GAINESVILLE STEEL FABRICATION LINE
RN105552798	3443	T34087	GRIZZLY MANUFACTURING PLANT
RN100610369	3444	T34088	ROOFTOP SYSTEMS
RN100667070	3444	T34089	GAMMA ENGINEERING METAL FABRICATION PLANT
RN100730225	3444	T34090	AIR VENT
RN100782515	3444	T34091	DFW CONTAINER SERVICE
RN100953140	3444	T34092	FABRAL
RN102846490	3444	T34093	DOUBLE W SERVICE MERIDIAN PLANT
RN102940350	3444	T34094	J & J CONTAINER MANUFACTURING
RN103030896	3444	T34095	PARADIGM METALS
RN103727707	3444	T34096	NCA MANUFACTURING
RN104089347	3444	T34097	CUSTOM FABRICATORS & REPAIRS
RN104912662	3444	T34098	ROOFTOP SYSTEMS TRINITY
RN104920061	3444	T34099	TRINITY PARTS & COMPONENTS PLANT 4026
RN104926233	3444	T34100	NATIONAL DUCT SYSTEMS
RN105666697	3444	T34101	GOLDEN PRECISION
RN105668180	3444	T34102	LINDAB MANUFACTURING
RN100981638	3446	T34103	UNITED STATES ALUMINUM CORPORATION TEXAS, ALUM ENTRANCE DOOR MFG
RN101330439	3446	T34104	ASSOCIATED ORNAMENTAL
RN101501096	3446	T34105	MMI PRODUCTS
RN101992352	3446	T34106	INTERNATIONAL EXTRUSION CORPORATION-TEXAS, U S ALUMINUM
RN102597994	3446	T34107	WEAVER MANUFACTURING
RN103036653	3446	T34108	FRESNO IRON WORKS SAN ANTONIO FACILITY
RN104711809	3446	T34109	LAMBERTS ORNAMENTAL IRON
RN105179857	3446	T34110	RIOS FENCE
RN100606748	3448	T34111	BUTLER MANUFACTURING COMPANY
RN100770247	3448	T34112	METL-SPAN I
RN100800317	3448	T34113	COMARK BUILDING SYSTEMS INC
RN103061883	3448	T34114	M & M COASTAL MANUFACTURING
RN104447537	3448	T34115	SCHULTE BUILDING SYSTEMS
RN100692151	3449	T34116	INDUSTRIAL CHROME PLATE INC., MACHINE SHOP AND HARD CHROME PLATING
RN100802495	3449	T34117	IMPERIAL GROUP LP DBA IMPERIAL FABRICATING INC
RN100830397	3449	T34118	WACO MACHINERY
RN103062386	3449	T34119	NATCO GROUP INC
RN105212328	3449	T34120	CONSOLIDATED SYSTEMS
RN100797505	3451	T34121	AUTOMATIC PRODUCTS
RN100559350	3452	T34122	HIGHLAND THREAD HOUSTON
RN100761907	3452	T34123	EDSCO FASTENERS
RN102735636	3452	T34124	KT GALVANIZING COMPANY KATY
RN104356431	3452	T34125	MADDEN BOLT
RN104359807	3452	T34126	SIGMA FASTENERS
RN100596121	3462	T34127	NATIONAL FLAME AND FORGE
RN102075686	3462	T34128	AMERIFORGE CORPORATION, HARRIS COUNTY FACILITY
RN104156567	3462	T34129	ARMOR LININGS

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN104507108	3465	T34130	TAKUMI STAMPING TEXAS SAN ANTONIO PLANT
RN104553292	3465	T34131	FUTABA INDUSTRIAL TEXAS
RN105559041	3465	T34132	MPN INC., LANCASTER PLANT 1
RN101874667	3469	T34133	NEW PROCESS STEEL
RN104996418	3469	T34134	M J CELCO INC., LOT 3 VANDERBILT ESTATES
RN100551589	3471	T34135	ANODICS
RN100551985	3471	T34136	ASTRO PLATING SAN ANTONIO
RN100565225	3471	T34137	COASTAL PLATING COMPANY
RN100593920	3471	T34138	DIXIE ELECTRO PLATING
RN100670074	3471	T34139	WALTON SIGNAGE
RN100670116	3471	T34140	BAKER S P D
RN100678572	3471	T34141	JORDAN PLATING
RN100683820	3471	T34142	SOUTHWEST IMPREGLON
RN100684745	3471	T34143	ROYALTY METAL FINISHING
RN100722222	3471	T34144	RADIANT PHOTONICS
RN100737204	3471	T34145	SENTRY AIRCRAFT CYLINDERS
RN100751312	3471	T34146	J & S PLATING AND REPAIR
RN100767300	3471	T34147	ABLE SANDBLASTING COMPANY LTD
RN100769728	3471	T34148	GLECO PLATING
RN100778083	3471	T34149	SHOW AND GO ENTERPRISES
RN100781418	3471	T34150	AAA INDUSTRIAL CHROMIUM
RN100790666	3471	T34151	US PLATING BURBANK ST
RN100791805	3471	T34152	AIR PRODUCTS AND CHEMICALS METHOD ST
RN100835602	3471	T34153	TEXAS HYDRAULICS INC DBA PRECISE HARD CHROME
RN100870146	3471	T34154	S & S PLATING
RN100874320	3471	T34155	DODD SANDBLASTING AND PAINTING FACILITY
RN100878826	3471	T34156	DELS PLATING WORKS
RN100886332	3471	T34157	BLASTICO
RN100917970	3471	T34158	SCHUMACHER CO LLC, SCHUMACHER POLK STREET FACILITY
RN100922293	3471	T34159	SOUTHERN TECHNOLOGY AND SERVICES
RN101056836	3471	T34160	METAL COATINGS
RN101058212	3471	T34161	SOUTHWESTERN PLATING HOUSTON PLANT
RN101059418	3471	T34162	MIRROR INDUSTRIES
RN101381663	3471	T34163	OIL PATCH SANDBLAST & PAINT
RN101467819	3471	T34164	HI TECH METAL FINISHING
RN101469542	3471	T34165	RENFROW HARD CHROME PLATING
RN101517753	3471	T34166	STEWART EFI FINISHING
RN101570703	3471	T34167	HERRING TANK
RN101636397	3471	T34168	DELSTAR
RN101803658	3471	T34169	T B MORAN PAINTING CO
RN102310547	3471	T34170	UNITED SPACE ALLIANCE LOGISTICS OFFICE
RN102326527	3471	T34171	SAN-COAT
RN102503968	3471	T34172	RAYTHEON LEMMON AVE
RN102525672	3471	T34173	SOUTHEAST SUBMICRON SERVICES
RN102556073	3471	T34174	GULL INDUSTRIES
RN102646106	3471	T34175	S & B TECHNICAL PRODUCTS
RN102711280	3471	T34176	HIRSCHFELD STEEL GROUP ABILENE PAINT SHOP
RN102770757	3471	T34177	MIDLAND PLANT
RN102798873	3471	T34178	JAR TEX INDUSTRIES
RN102854023	3471	T34179	SIFCO SELECTIVE PLATING

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN102970746	3471	T34180	JOHN MARTIN YARD
RN103062170	3471	T34181	BAEZAS SANDBLASTING
RN103116992	3471	T34182	FIERROS COATING
RN103148698	3471	T34183	COMMERCE PLATING
RN103158119	3471	T34184	RE-CAL SERVICE
RN103728564	3471	T34185	RESULT ENTERPRISES INC, HIGH TECH FINISHING
RN103796421	3471	T34186	RISTER CRANKSHAFT SPECIALISTS
RN104488507	3471	T34187	US PLATING IRVING
RN104766423	3471	T34188	BASIC INDUSTRIES OF SOUTH TEXAS
RN104894894	3471	T34189	SIGMA FASTENERS SURFACE COATING OPERATION
RN104957055	3471	T34190	BELL SANDBLASTING
RN104964929	3471	T34191	SIFCO INDUSTRIES
RN105217665	3471	T34192	TEXAS SANDBLAST
RN105303986	3471	T34193	FURNACE SPECIALTIES AND SERVICES INC, SAND BLASTING COATING FACILITY
RN105460323	3471	T34194	HOUSTON PLATING AND COATINGS HUMBLE FACILITY
RN105475040	3471	T34195	MORGAN METAL FINISHING
RN105504369	3471	T34196	MAIN STEEL POLISHING COMPANY INC
RN105566483	3471	T34197	BARKENS HARDCHROME PLATING FACILITY
RN105566525	3471	T34198	SAM CICALO PROPERTY
RN100571033	3479	T34199	NIX ELECTRIC COMPANY
RN100578368	3479	T34200	KT GALVANIZING VENUS FACILITY
RN100594290	3479	T34201	SOUTHWEST GALVANIZING
RN100616812	3479	T34202	BROOKS INDUSTRIAL COATINGS
RN100624444	3479	T34203	BLAST INDUSTRIAL CLEANING SERVICES
RN100638162	3479	T34204	ALL DAY INDUSTRIAL PAINTING
RN100640127	3479	T34205	WESTERN SALES & TESTING
RN100649532	3479	T34206	DUOLINE TECHNOLOGIES
RN100675016	3479	T34207	CRANE VALVE SERVICES
RN100689363	3479	T34208	CHRISTOPHER M. CROMINS (PIPE FITTING CLEANING & COATING FACILITY)
RN100697127	3479	T34209	WEATHERFORD US
RN100721182	3479	T34210	GEMINI, INC.
RN100732148	3479	T34211	IDENTIFICATION PLATES
RN100733146	3479	T34212	RACK TECHNOLOGY INC, METAL RACK CLEANING & COATING FACILITY
RN100751395	3479	T34213	ESSNER MANUFACTURING
RN100767409	3479	T34214	FOXCONN
RN100769116	3479	T34215	AERO COMPONENTS
RN100769801	3479	T34216	EW JOHNSON KEALY
RN100771807	3479	T34217	SOUTHWESTERN RACK
RN100796085	3479	T34218	HYDROMORIS LP
RN100803279	3479	T34219	WISE COUNTY DETAILING
RN100826544	3479	T34220	DANA CORP
RN100850882	3479	T34221	TEXAS COMPOSITE
RN100868009	3479	T34222	WALBAR TURBINE COMPONENT SERVICES
RN100894609	3479	T34223	APPH HOUSTON
RN100899988	3479	T34224	S AND S COATING HOUSTON
RN100910348	3479	T34225	KEITH, INC.
RN100921360	3479	T34226	HAUBOLDT FIBERGLASS PRODUCTS
RN101378875	3479	T34227	AAA BLAST COTE
RN101979466	3479	T34228	TWI GALVANIZING
RN102289295	3479	T34229	UNITED GALVANIZING

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN102299815	3479	T34230	HITEMCO SOUTHWEST SATSUMA FACILITY
RN102300670	3479	T34231	TEXAS GALVANIZING
RN102304953	3479	T34232	MSA INDUSTRIES
RN102316866	3479	T34233	CAMERON INTERNATIONAL CORPORATION, COOPER ENERGY SERVICES COMPRESSOR GROUP
RN102503166	3479	T34234	KNIGHTEN MACHINE SERVICE INC (SPRAY METALLIZING FACILITY)
RN102511920	3479	T34235	NATIONAL OILWELL VARCO LP, RIG SOLUTIONS VICTORIA
RN102527330	3479	T34236	STEPHEN W. ALLEN (SURFACE COATING BOOTH)
RN102548476	3479	T34237	WILLIAM T. HAYNES (COATING)
RN102552783	3479	T34238	NORTH DALLAS WAREHOUSE EQUIPMENT
RN102564705	3479	T34239	BO-MAC CONTRACTORS MARINE YARD VIDOR
RN102565967	3479	T34240	GARTNER PEARLAND
RN102577673	3479	T34241	METALPLATE GALVANIZING
RN102581436	3479	T34242	HANOVER 300-PAINT AREA
RN102598604	3479	T34243	DRAGON LIBERTY FACILITY
RN102779352	3479	T34244	ASSOCIATED AIR CTR
RN102863248	3479	T34245	AZTEC MANUFACTURING CO WASKOM
RN102915238	3479	T34246	SPARKMAN INDUSTRIES CATALYST DIVISION
RN102955051	3479	T34247	PRAXAIR SURFACE TECHNOLOGIES
RN102964152	3479	T34248	SUPERIOR POWDER COATING
RN102979895	3479	T34249	CUSTOM FAB INC. (03)
RN102987955	3479	T34250	RE-CAL SERVICES
RN103043204	3479	T34251	3P INDUSTRIES
RN103078309	3479	T34252	BFI LITTLE YORK ROAD
RN103784898	3479	T34253	TEXAS IMAGE PAINT & SCREEN
RN103988564	3479	T34254	AMERICAN TRUCK AND EQUIPMENT PAINTING
RN104067699	3479	T34255	MINDIS INTERNATIONAL
RN104155973	3479	T34256	PACKAGING AND RECOVERY
RN104277249	3479	T34257	SYLTONE MARINE
RN104363957	3479	T34258	TUBOSCOPE A NATIONAL OILWELL VARCO (SPRAY METAL ROAD FACILITY)
RN104417951	3479	T34259	APACHE INDUSTRIAL PAINTING
RN104499355	3479	T34260	CONCHO COLLISION BODY SHOP
RN104555081	3479	T34261	WORLD TECH AUTO SERVICE AND BODY
RN104614904	3479	T34262	VIEWPOINT ENERGY SAN LEON FACILITY
RN104639216	3479	T34263	RED-D-ARC
RN104676291	3479	T34264	CROSSLINK POWDER COATING OF AUSTIN
RN104700026	3479	T34265	WILCOAT PAINTING SPECIALISTS
RN104743901	3479	T34266	CORCOAT FACILITY
RN104780697	3479	T34267	HOUSTON PLATING & COATINGS
RN104858535	3479	T34268	RAINBOW PAINTING & SANDBLASTING
RN104876917	3479	T34269	SIKORSKY AIRCRAFT MAINTENANCE FACILITY
RN104894910	3479	T34270	AMERICAN SURFACE MODIFICATIONS
RN104898705	3479	T34271	SBOX STORAGE
RN104909932	3479	T34272	STEEL PAINTERS FRINT FACILITY
RN104965371	3479	T34273	WATERPARK EXPERTS
RN105011381	3479	T34274	BRAND INDUSTRAIL SOLUTIONS LLC, INDUSTRIAL SPECIALISTS
RN105088629	3479	T34275	PERMIAN ENTERPRISES PIPE YARD
RN105161954	3479	T34276	ASTRA INC., CFX GARLAND PLANT
RN105236020	3479	T34277	DISCOUNT TRACTOR EQUIPMENT (TOMMY RICHARDS)
RN105246417	3479	T34278	TRUCOAT
RN105328629	3479	T34279	SHAWCOR BEAUMONT CONCRETE PIPE COATING FACILITY

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN105364103	3479	T34280	SOONER COATING OF TEXAS LLC
RN105372809	3479	T34281	DIVERSIFIED MECHANICAL SERVICES DBA GULF COAST MECHANICAL & COATING
RN105564074	3479	T34282	JINDAL SAW USA LLC, JSU BAYTOWN FACILITY
RN105589022	3479	T34283	UNIVERSAL CORROSION SPECIALISTS, INC., CLEBURNE SITE
RN105602312	3479	T34284	UNIVERSAL CORROSION TROUP SITE
RN105675045	3479	T34285	BASIC EQUIPMENT MILLER RD
RN105720379	3479	T34286	ROD DIP COATING FACILITY
RN100210756	3483	T34287	US DEPARTMENT OF ENERGY PANTEX PLANT
RN102166014	3484	T34288	MAVERICK ARMS EAGLE PASS FACILITY
RN100548403	3491	T34289	FISHER CONTROLS INTERNATIONAL SHERMAN
RN100576602	3491	T34290	FLOWSERVE CORPUS CHRISTI
RN100644202	3491	T34291	TYCO VALVES & CONTROLS STAFFORD FACILITY
RN100647841	3491	T34292	TYCO VALVES & CONTROLS, HOUSTON CAMPUS
RN100663905	3491	T34293	VTI
RN100664630	3491	T34294	CRP BALMORAL
RN102144623	3491	T34295	CAMERON VALVES-MELDRUM LANE FACILITY
RN102959434	3491	T34296	CROSS ROADS METAL FINISHERS
RN102996782	3491	T34297	JD EXPRESSWAY FORD JAGUAR OF EL PASO
RN103934170	3491	T34298	BOASSO AMERICA CHANNELVIEW FACILITY
RN104000393	3491	T34299	CAMERON INTERNATIONAL CORPORATION, COMPRESSION SYSTEMS FACILITY
RN104921077	3491	T34300	SOUTH TEXAS SANDBLASTING AND PAINT
RN105275028	3491	T34301	UNITED WELLHEAD SERVICES
RN105335616	3491	T34302	TYCO VALVES AND CONTROLS TEC HOUSTON
RN100602507	3492	T34303	PARKER HANNIFIN STRATOFLEX DIVISION
RN103055406	3492	T34304	DRY ABRASIVE CLEANING
RN105327878	3492	T34305	NATIONAL OILWELL VARCO TEXAS OIL TOOLS
RN100549047	3494	T34306	ZIMMERMANN & JANSEN
RN100570118	3494	T34307	OTECO
RN100598176	3494	T34308	DIXIE IRON WORKS DUPLICATE 77901
RN100692276	3494	T34309	TIW
RN101049658	3494	T34310	RIG-UP ELECTRICAL SERVICES
RN101469583	3494	T34311	MUELLER COMPANY
RN101756583	3494	T34312	ANVIL INTERNATIONAL
RN102064433	3494	T34313	BETTIS
RN102801891	3494	T34314	TEXAS PENN MACHINE WORKS
RN102838638	3494	T34315	FMC SURFACE WELLHEAD LONGVIEW
RN104133442	3494	T34316	ANVIL HOUSTON FACILITY
RN104157854	3496	T34317	5 STAR FABRICATIONS
RN100598630	3498	T34318	J B SMITH MANUFACTURING
RN100601541	3498	T34319	GRANT PRIDECO BRYAN FACILITY
RN100623529	3498	T34320	HUNTING OILFIELD SERVICES
RN100650621	3498	T34321	US STEEL TUBULAR PRODUCTS INC, TUBULAR THREADING & INSPECTION SVS. DIV.
RN100755123	3498	T34322	THERMACOR PROCESS
RN100926716	3498	T34323	INDUSTRIAL FAB
RN101501294	3498	T34324	TUBOSCOPE CORPUS CHRISTI INSPECTION
RN102441268	3498	T34325	V&M TUBE ALLOY
RN103059739	3498	T34326	HOUSTON PIPE BENDERS
RN103143533	3498	T34327	UNITED CASING TUBULAR SERVICES SHELDON ROAD
RN103215364	3498	T34328	TUBULAR SERVICES JACINTOPORT YARD

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN103779591	3498	T34329	CERTIFIED PIPE SERVICE HOUSTON
RN105053185	3498	T34330	HOWCO METALS MANAGEMENT
RN105626576	3498	T34331	TEAM FABRICATORS METAL FABRICATION
RN100556448	3499	T34332	COX INDUSTRIES
RN100566421	3499	T34333	BRIGHT COOP
RN100577808	3499	T34334	FALCON STEEL HALTOM CITY
RN100591114	3499	T34335	QUEMETCO METALS IRVING FACILITY
RN100604396	3499	T34336	MAGNETIC TICKET & LABEL
RN100623834	3499	T34337	DIAB FST AUTOBAHN
RN100664127	3499	T34338	QUALITY FENCE & WELDING COMPANY
RN100676279	3499	T34339	TAPCO INTERNATIONAL
RN100732932	3499	T34340	CHROMALLOY DALLAS
RN100739788	3499	T34341	MAY ADVERTISING CORP OF TEXAS
RN100772615	3499	T34342	HILITE INDUSTRIES AUTOMOTIVE
RN100787845	3499	T34343	MIDLAND MANUFACTURING
RN100816198	3499	T34344	TOMS IRON WORKS
RN100816693	3499	T34345	SAN JOSE CUSTOM SHUTTERS
RN100816792	3499	T34346	BEST IRON WORKS
RN100857226	3499	T34347	FORNEY CORPORATION CARROLLTON SITE
RN100866730	3499	T34348	SIEMENS POWER GENERATION
RN100890227	3499	T34349	J M HOLM & CO
RN101202638	3499	T34350	MAC EQUIPMENT
RN101349272	3499	T34351	SANDVIK MINING AND CONSTRUCTION MANSFIELD PLANT
RN101757821	3499	T34352	CROSBY HIGH SCHOOL
RN101997500	3499	T34353	EXTERRAN ENERGY SOLUTIONS
RN102525623	3499	T34354	CENTRAL TX IRON WORKS
RN102600905	3499	T34355	BURGESS MANNING
RN102853728	3499	T34356	GLEMCO LEANDER FACILITY
RN103049532	3499	T34357	SHAFFER A NATIONAL OILWELL VARCO BRITTMOORE REPAIR CENTER
RN104065040	3499	T34358	WASTE MANAGEMENT OF TEXAS INC., SINGLETON CONTAINER REPAIR FACILITY
RN104179338	3499	T34359	SECURITY PRODUCTS
RN104873294	3499	T34360	ALAMO FENCE CO OF SAN ANTONIO
RN104960299	3499	T34361	TARLTON SUPPLY
RN105138036	3499	T34362	AMERITRAIL MANUFACTURING
RN100762467	3441	T34363	PHILLIPS SIGN CO
RN100803006	3441	T34364	RATLIFF IRON WORKS INC
RN100868660	3441	T34365	CMC STERLING STEEL COMPANY
RN102551587	3441	T34366	C M C STEEL FABRICATORS INC (ABRASIVE BLASTING UNIT)
RN104367065	3441	T34367	DELTA FABRICATION & MACHINE
RN104875554	3441	T34368	LANDMARK FABRICATION LP
RN105615850	3441	T34369	TOWER TECH SYSTEMS
RN102170438	3443	T34370	OCCIDENTAL PERMIAN LTD, R I MARR LEASE LUBBOCK CITY
RN102743366	3443	T34371	PERMIAN FABRICATION & SERVICE, ODESSA PLANT
RN104397518	3443	T34372	WELLS MCCOY STEEL FABRICATION FACILITY ANNA
RN105326433	3443	T34373	BRYAN STEEL MANUFACTURING PLANT
RN100852730	3444	T34374	Metal Fab Inc.
RN105610471	3444	T34375	AMERICAN STEEL BUILDING CO., INC., HOUSTON PLANT
RN101671816	3449	T34376	BASSLER BASE AND SERVICES SITE 1
RN102562634	3449	T34377	SOUTHERN METAL PROCESSING COMPANY INC, BAYTOWN PLANT
RN103057576	3449	T34378	STRIKE CONSTRUCTION

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN100814722	3469	T34379	Stewart EFI Texas, LLC
RN102200243	3469	T34380	FABCON COMPANY
RN102863859	3469	T34381	OSCAR RENDA CONTRACTING, TRENCH BURNER 1
RN100738483	3471	T34382	PAL CON
RN100846112	3471	T34383	Prestige Metal Plating
RN100862176	3471	T34384	Rig & Crane
RN100889427	3471	T34385	RONS SANDBLASTING & COATI
RN100903517	3471	T34386	TECHNICOATINGS SCAFFOLDING & INSULATION, INC.
RN100915404	3471	T34387	KOCH ENGINEERING COMPANY, BAYTOWN VESSEL LINING FACILITY
RN101114841	3471	T34388	HARRISON ELECTROPOLISHING, SAMSCO WATER EVAPORATOR
RN101943363	3471	T34389	LECTRUS
RN101949337	3471	T34390	JM DAVIDSON INC
RN102175262	3471	T34391	Masterson Industries Inc
RN102306461	3471	T34392	GATX RAIL, PLANTERSVILLE RAILCAR MAINTENANCE FACILITY
RN102498185	3471	T34393	Texas Systems & Controls
RN102504644	3471	T34394	Protherm Services Group, LLC (Beaumont Metal Shop)
RN102542412	3471	T34395	CAL DIVE INTERNATIONAL
RN104746714	3471	T34396	YFZ LAND LLC
RN105359608	3471	T34397	ARROWHEAD PLATING
RN105645915	3471	T34398	BLASTMASTERS PAINTING
RN105647721	3471	T34399	SKYLINE TECHNOLOGIES, ABRASIVE BLASTING & PAINTING
RN100720457	3479	T34400	TOWN AND COUNTRY SANDBLASTING
RN100733625	3479	T34401	WAGNER-SMITH EQUIPMENT COMPANY
RN100737717	3479	T34402	Harris Fiberglass Materials, Inc.
RN100749712	3479	T34403	Triad Product Finishing, Inc.
RN100762657	3479	T34404	United Rentals
RN100765841	3479	T34405	ADELL CORPORATION
RN100781053	3479	T34406	Ennis Paint Inc
RN100800812	3479	T34407	IGNITION INCORPORATED
RN100805738	3479	T34408	UNIFLIGHT, INC.
RN100844356	3479	T34409	Southwest Signs
RN100844588	3479	T34410	Plant Fabricators Inc
RN100872563	3479	T34411	MCGINNIS CADILLAC PAINT AND BODYSHOP
RN100881283	3479	T34412	PRESERVO PAINT & COATINGS MANUFACTURING CO
RN100882679	3479	T34413	AMICO Dayton
RN100907658	3479	T34414	LONE STAR FACES INC
RN100923671	3479	T34415	Omega Coatings, Inc.
RN100976141	3479	T34416	US Galvanizing LP
RN101332997	3479	T34417	SBOX STORAGE
RN101335628	3479	T34418	Dallas Commercial Coatings
RN101976801	3479	T34419	ACCURATE (Brookshire Facility)
RN102173978	3479	T34420	AVIALL SERVICES INC
RN102193554	3479	T34421	Dresser Roots Factory Service & Repair Center Halliburton
RN102201167	3479	T34422	Helena Chemical Company
RN102498706	3479	T34423	Coating Engineers Inc
RN102498953	3479	T34424	WACOM PRODUCTS INC
RN102516838	3479	T34425	HITEMCO SOUTHWEST
RN102536927	3479	T34426	OIL STATES INDUSTRIES INC. (ADHESIVE & PAINT)
RN102547049	3479	T34427	O'NEALS WELDING & FAB INC
RN102549615	3479	T34428	Accu Coat

RN No.	SIC	Survey No.	REGULATED ENTITY NAME
RN102566155	3479	T34429	Texas Aerocolor, Inc.
RN102566585	3479	T34430	TXU PIPELINE SERVICES
RN102709730	3479	T34431	HIRSCHFIELD STEEL CO INC
RN102710449	3479	T34432	AZTEC GALVANIZING
RN102758794	3479	T34433	T BAR FENCE INC
RN102775731	3479	T34434	USAR-ASF-HOUSTON
RN102914306	3479	T34435	Dms Painting Inc
RN103004552	3479	T34436	HORIZON HIGH REACH
RN103064473	3479	T34437	Bob Curran & Sons
RN103114922	3479	T34438	RAMA FABRICATION INC
RN103941027	3479	T34439	Luvata ElectroFin Inc.
RN104201488	3479	T34440	ENTERPRISE PRODUCTS OPERATING PIPELINE CHAMBERS COUNTY
RN104478185	3479	T34441	Accurate Inc.
RN104799846	3479	T34442	Nri-Bar Sandblasting & Painting Company
RN104898150	3479	T34443	A ROYAL WOLF PORTABLE STORAGE, SBOX STORAGE
RN105138481	3479	T34444	CHATAWA SPRAY PAINTING
RN105337570	3479	T34445	TECHNICOATINGS SCAFFOLDING & INSULATION, INC.
RN105509293	3479	T34446	DALLAS POWDER COAT - WESTBROOK LEAN MANAGEMENT INC
RN105526958	3479	T34447	Universal Safety Consultants
RN105567176	3479	T34448	Neches Marine & Fabrication
RN105638076	3479	T34449	EJV SANDBLASTING AND COATING
RN102613007	3491	T34450	SURFACE COATING FACILITY
RN102800372	3491	T34451	Groth Corporation
RN103934782	3491	T34452	Trails West
RN104213590	3491	T34453	Dresser, Inc.
RN105121990	3492	T34454	TEXAS OIL TOOLS
RN101949378	3494	T34455	Flowserve Corporate
RN103058095	3496	T34456	Baumann Springs Texas Ltd
RN102498250	3498	T34457	HOUSTON TUBULARS INC, PEARLAND
RN102873924	3498	T34458	Dynamic Products Inc.
RN102923539	3498	T34459	WMP HOLDINGS, INC.
RN100784214	3499	T34460	CUSTOM IRON WORKS
RN100786052	3499	T34461	MXROS INC
RN100794452	3499	T34462	KETEMA INCORPORATED
RN100801000	3499	T34463	Southwest Spray Painter
RN100834480	3499	T34464	Mexia Fabricators Inc
RN100956408	3499	T34465	HAC CORPORATION
RN102699634	3499	T34466	THOMAS CONVEYOR CO INC
RN103079661	3499	T34467	All-Tex Seed, Inc

APPENDIX B:

MPS PHASE 3 SURVEY FORMS

TCEQ Minor Point Source Survey (SIC 20xx)

Complete this survey for each site engaged in the manufacturing or processing of foods and beverages for human consumption, and certain related products (e.g., manufactured ice, vegetable and animal fats and oils, prepared feeds for animals and fowls, etc.), authorized by a standard exemption, permit-by-rule, or air permit (as applicable) during calendar year 2008. If 2008 data are not available, then report for an alternative calendar year. Complete a separate survey for each type of site.

Did your site submit an annual point source air emissions inventory questionnaire for calendar year 2008?
Yes___ *If answer is yes, then please provide RN or Air Account Number and return this form. RN or Air Account Number:* _____
No____ If answer is no, then please continue.

Provide air permit number (if applicable): _____

Provide Standard Industrial Classification (SIC) code: _____

1. Did this site operate in calendar year 2008? Yes ____ No ____ *If no, then please provide the requested data for an alternate calendar year,* Year: _____

2. Provide location(s) of the site during the year being reported.
   County:_____ Zip Code: _____

3. What was the site's operating schedule in 2008 or alternate calendar year?
   Hours/day:_____ Days/week: _____ Weeks/Year: _____

4. What was the site's seasonal percentage of annual operations?

Spring	Summer	Fall	Winter
%	%	%	%

(Sum of percentages must equal 100%)

5. If the site is being operated under a TCEQ air permit, please provide Certified Emissions Rate Table (CERT) or Maximum Allowable Emission Rate Table (MAERT). Next to each regulated pollutant (i.e., NO_x, SO_2, VOC, PM_{10}, $PM_{2.5}$, CO) on the table, list the control device and the total control efficiency. *See attached Table 1 for listing of possible control options; use codes if desired.*

6. Provide the fuel use information for all fuels used in all process equipment (e.g., rotary dryers, boilers, etc.) EXCLUDING internal combustion engines – **Use "Process Equipment and Associated Fuel Use" table on reverse.**

By June 30, 2009*: Fax this page, along with the CERT and/or MAERT with controls and efficiencies to Paula Fields, ERG (916) 361-6759, or mail to: ERG, attn: Paula Fields, 8950 Cal Center Drive, Suite 348 Sacramento, CA 95826*

TCEQ Minor Point Source Survey (SIC 24XX)

Complete this survey for each site engaged in cutting timber and pulpwood, merchant mills engaged in producing lumber and wood basic materials, and establishments engaged in manufacturing finished articles made entirely or mainly of wood or related materials, which were authorized by a standard exemption, permit-by-rule, or air permit (as applicable) during calendar year 2008. If 2008 data are not available, then report for an alternative calendar year. Complete a separate survey for each type of site.

Did your site submit an annual point source air emissions inventory questionnaire for calendar year 2008?
Yes___ *If answer is yes, then please provide RN or Air Account Number and return this form. RN or Air Account Number:* _____
No____ If answer is no, then please continue.

Provide air permit number (if applicable): _____

Provide Standard Industrial Classification (SIC) code: _____

1. Did this site operate in calendar year 2008? Yes ____ No ____ *If no, then please provide the requested data for an alternate calendar year,* Year: _____

2. Provide location(s) of the site during the year being reported.
   County:_____ Zip Code: _____

3. What was the site's operating schedule in 2008 or alternate calendar year?
   Hours/day:_____ Days/week: _____ Weeks/Year: _____

4. What was the site's seasonal percentage of annual operations?

Spring	Summer	Fall	Winter
%	%	%	%

(Sum of percentages must equal 100%)

5. If the site is being operated under a TCEQ air permit, please provide Certified Emissions Rate Table (CERT) or Maximum Allowable Emission Rate Table (MAERT). Next to each regulated pollutant (i.e., NO_x, SO_2, VOC, PM_{10}, $PM_{2.5}$, CO) on the table, list the control device and the total control efficiency. *See attached Table 1 for listing of possible control options; use codes if desired.*

6. Provide the fuel use information for all fuels used in <u>all process equipment</u> (e.g., rotary dryers, boilers, etc.) EXCLUDING internal combustion engines – **Use "Process Equipment and Associated Fuel Use" table on reverse.**

By June 30, 2009*: Fax this page, along with the CERT and/or MAERT with controls and efficiencies to Paula Fields, ERG (916) 361-6759, or mail to: ERG, attn: Paula Fields, 8950 Cal Center Drive, Suite 348 Sacramento, CA 95826*

TCEQ Minor Point Source Survey (SIC 33XX)

Complete this survey for each site engaged in smelting and refining ferrous and nonferrous metals, rolling, drawing and alloying metals, manufacturing castings and other basic metal products (e.g., nails, spikes, and insulated wire and cable), or the production of coke. Sites should be authorized by a standard exemption, permit-by-rule, or air permit (as applicable) during calendar year 2008. If 2008 data are not available, then report for an alternative calendar year. Complete a separate survey for each type of site.

Did your site submit an annual point source air emissions inventory questionnaire for calendar year 2008?
Yes___ *If answer is yes, then please provide RN or Air Account Number and return this form. RN or Air Account Number:* _____
No____ *If answer is no, then please continue.*

Provide air permit number (if applicable): _____

Provide Standard Industrial Classification (SIC) code: _____

1. Did this site operate in calendar year 2008? Yes ____ No ____ *If no, then please provide the requested data for an alternate calendar year,* Year: _____

2. Provide location(s) of the site during the year being reported.
   County:_____ Zip Code: _____

3. What was the site's operating schedule in 2008 or alternate calendar year?
   Hours/day:_____ Days/week: _____ Weeks/Year: _____

4. What was the site's seasonal percentage of annual operations?

Spring	Summer	Fall	Winter
%	%	%	%

(Sum of percentages must equal 100%)

5. If the site is being operated under a TCEQ air permit, please provide Certified Emissions Rate Table (CERT) or Maximum Allowable Emission Rate Table (MAERT). Next to each regulated pollutant (i.e., NO_x, SO_2, VOC, PM_{10}, $PM_{2.5}$, CO) on the table, list the control device and the total control efficiency. *See attached Table 1 for listing of possible control options; use codes if desired.*

6. Provide the fuel use information for all fuels used in <u>all process equipment</u> (e.g., rotary dryers, boilers, etc.) EXCLUDING internal combustion engines – **Use "Process Equipment and Associated Fuel Use" table on reverse.**

By June 30, 2009*: Fax this page, along with the CERT and/or MAERT with controls and efficiencies to Paula Fields, ERG (916) 361-6759, or mail to: ERG, attn: Paula Fields, 8950 Cal Center Drive, Suite 348 Sacramento, CA 95826*

TCEQ Minor Point Source Survey (SIC 34XX)

Complete this survey for each site engaged in fabricating ferrous and nonferrous metal products, such as metal cans, tinware, hand tools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordinance, and a variety of metal and wire products. Manufacturers of machinery, transportation equipment, scientific and controlling instruments, watches, clocks, jewelry, and producing ferrous and nonferrous metals and their alloys are not included. Sites should be authorized by a standard exemption, permit-by-rule, or air permit (as applicable) during calendar year 2008. If 2008 data are not available, then report for an alternative calendar year. Complete a separate survey for each type of site.

Did your site submit an annual point source air emissions inventory questionnaire for calendar year 2008? Yes___ *If answer is yes, then please provide RN or Air Account Number and return this form.*
RN or Air Account Number: _____
No____ *If answer is no, then please continue.*

Provide air permit number (if applicable): _____

Provide Standard Industrial Classification (SIC) code: _____

1. Did this site operate in calendar year 2008? Yes ____ No ____ *If no, then please provide the requested data for an alternate calendar year,* Year: _____

2. Provide location(s) of the site during the year being reported.
   County:_____ Zip Code: _____

3. What was the site's operating schedule in 2008 or alternate calendar year?
   Hours/day:_____ Days/week: _____ Weeks/Year: _____

4. What was the site's seasonal percentage of annual operations?

Spring	Summer	Fall	Winter
%	%	%	%

(Sum of percentages must equal 100%)

5. If the site is being operated under a TCEQ air permit, please provide Certified Emissions Rate Table (CERT) or Maximum Allowable Emission Rate Table (MAERT). Next to each regulated pollutant (i.e., NO_x, SO_2, VOC, PM_{10}, $PM_{2.5}$, CO) on the table, list the control device and the total control efficiency. *See attached Table 1 for listing of possible control options; use codes if desired.*

6. Provide the fuel use information for all fuels used in <u>all process equipment</u> (e.g., rotary dryers, boilers, etc.) EXCLUDING internal combustion engines – **Use "Process Equipment and Associated Fuel Use" table on reverse.**

By June 30, 2009*: Fax this page, along with the CERT and/or MAERT with controls and efficiencies to Paula Fields, ERG (916) 361-6759, or mail to: ERG, attn: Paula Fields, 8950 Cal Center Drive, Suite 348, Sacramento, CA 95826*

PROCESS EQUIPMENT AND ASSOCIATED FUEL USE

Process Equipment Name	Maximum Design Capacity[a]	Maximum Design Capacity Units[b]	Actual Capacity (%)[c]	Fuel type[d]	Maximum Fuel Consumption (Hourly)	Maximum Fuel Consumption (Annual)	Fuel Units[e]

(Provide additional rows, as needed)

[a] For purposes of this survey, Maximum Design Capacity is the output when the process is operating at 100% and emitting the maximum allowable or certified emissions.
[b] Maximum Design Capacity Units may include tons, cubic yards, gallons, etc.
[c] Actual Capacity is the percent capacity in 2008 (or alternate year) and is calculated by dividing Actual Production by the Maximum Design Capacity. Sample calculation – (750,000 tons produced/1,000,000 tons Maximum Design Capacity) = 75% Actual Capacity
[d] *See attached Table 2 for listing of fuel types; use codes if desired.*
[e] Fuel Units may include gallons, million cubic feet, tons, etc.

By June 30, 2009: Fax this page, along with the CERT and/or MAERT with controls and efficiencies to: Paula Fields, ERG (916) 361-6759, or mail to: ERG, attn. Paula Fields, 8950 Cal Center Drive, Suite 348, Sacramento, CA 95826

APPENDIX C

2005 TEXAS STATEWIDE EMISSIONS BY SIC AND COUNTY

Table C-1. 2005 Texas Statewide Emissions, by County: SIC 2013 (Sausages & Other Prepared Meats)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48005	Angelina	3	9.3	1.3	7.1	6.3	0.9	4.8
48009	Archer	1	3.1	0.4	2.4	2.1	0.3	1.6
48015	Austin	1	3.1	0.4	2.4	2.1	0.3	1.6
48021	Bastrop	2	6.2	0.9	4.7	4.2	0.6	3.2
48029	Bexar	8	24.9	3.5	19.0	16.8	2.3	12.8
48051	Burleson	1	3.1	0.4	2.4	2.1	0.3	1.6
48063	Camp	1	3.1	0.4	2.4	2.1	0.3	1.6
48085	Collin	2	6.2	0.9	4.7	4.2	0.6	3.2
48089	Colorado	2	6.2	0.9	4.7	4.2	0.6	3.2
48091	Comal	3	9.3	1.3	7.1	6.3	0.9	4.8
48113	Dallas	8	24.9	3.5	19.0	16.8	2.3	12.8
48121	Denton	2	6.2	0.9	4.7	4.2	0.6	3.2
48123	DeWitt	2	6.2	0.9	4.7	4.2	0.6	3.2
48139	Ellis	1	3.1	0.4	2.4	2.1	0.3	1.6
48141	El Paso	4	12.4	1.7	9.5	8.4	1.2	6.4
48149	Fayette	3	9.3	1.3	7.1	6.3	0.9	4.8
48157	Fort Bend	2	6.2	0.9	4.7	4.2	0.6	3.2
48171	Gillespie	1	3.1	0.4	2.4	2.1	0.3	1.6
48177	Gonzales	1	3.1	0.4	2.4	2.1	0.3	1.6
48183	Gregg	1	3.1	0.4	2.4	2.1	0.3	1.6
48189	Hale	1	3.1	0.4	2.4	2.1	0.3	1.6
48193	Hamilton	1	3.1	0.4	2.4	2.1	0.3	1.6
48199	Hardin	1	3.1	0.4	2.4	2.1	0.3	1.6
48201	Harris	8	24.9	3.5	19.0	16.8	2.3	12.8
48203	Harrison	1	3.1	0.4	2.4	2.1	0.3	1.6
48215	Hidalgo	2	6.2	0.9	4.7	4.2	0.6	3.2
48217	Hill	1	3.1	0.4	2.4	2.1	0.3	1.6
48223	Hopkins	1	3.1	0.4	2.4	2.1	0.3	1.6
48245	Jefferson	2	6.2	0.9	4.7	4.2	0.6	3.2
48251	Johnson	1	3.1	0.4	2.4	2.1	0.3	1.6
48255	Karnes	1	3.1	0.4	2.4	2.1	0.3	1.6
48257	Kaufman	1	3.1	0.4	2.4	2.1	0.3	1.6
48285	Lavaca	2	6.2	0.9	4.7	4.2	0.6	3.2
48303	Lubbock	3	9.3	1.3	7.1	6.3	0.9	4.8
48325	Medina	1	3.1	0.4	2.4	2.1	0.3	1.6
48327	Menard	1	3.1	0.4	2.4	2.1	0.3	1.6
48329	Midland	1	3.1	0.4	2.4	2.1	0.3	1.6
48355	Nueces	1	3.1	0.4	2.4	2.1	0.3	1.6
48361	Orange	1	3.1	0.4	2.4	2.1	0.3	1.6
48367	Parker	1	3.1	0.4	2.4	2.1	0.3	1.6
48369	Parmer	1	3.1	0.4	2.4	2.1	0.3	1.6
48375	Potter	2	6.2	0.9	4.7	4.2	0.6	3.2
48399	Runnels	2	6.2	0.9	4.7	4.2	0.6	3.2
48401	Rusk	1	3.1	0.4	2.4	2.1	0.3	1.6
48423	Smith	1	3.1	0.4	2.4	2.1	0.3	1.6
48439	Tarrant	5	15.5	2.2	11.9	10.5	1.5	8.0
48453	Travis	2	6.2	0.9	4.7	4.2	0.6	3.2
48477	Washington	2	6.2	0.9	4.7	4.2	0.6	3.2
48481	Wharton	1	3.1	0.4	2.4	2.1	0.3	1.6
48485	Wichita	1	3.1	0.4	2.4	2.1	0.3	1.6
48487	Wilbarger	2	6.2	0.9	4.7	4.2	0.6	3.2
48489	Willacy	1	3.1	0.4	2.4	2.1	0.3	1.6
48491	Williamson	2	6.2	0.9	4.7	4.2	0.6	3.2
	Total	**104**	**323.4**	**45.3**	**246.8**	**218.1**	**30.5**	**166.4**

Table C-2. 2005 Texas Statewide Emissions, by County: SIC 2041 (Flour & Other Grain Mill Products)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48017	Bailey	1	0.0	0.0	0.0	37.8	19.8	107.9
48091	Comal	1	0.0	0.0	0.0	37.8	19.8	107.9
48117	Deaf Smith	1	0.0	0.0	0.0	37.8	19.8	107.9
48121	Denton	1	0.0	0.0	0.0	37.8	19.8	107.9
48157	Fort Bend	1	0.0	0.0	0.0	37.8	19.8	107.9
48181	Grayson	1	0.0	0.0	0.0	37.8	19.8	107.9
48189	Hale	1	0.0	0.0	0.0	37.8	19.8	107.9
48201	Harris	3	0.0	0.0	0.0	113.5	59.4	323.8
48215	Hidalgo	1	0.0	0.0	0.0	37.8	19.8	107.9
48217	Hill	1	0.0	0.0	0.0	37.8	19.8	107.9
48309	McLennan	1	0.0	0.0	0.0	37.8	19.8	107.9
48389	Reeves	1	0.0	0.0	0.0	37.8	19.8	107.9
48439	Tarrant	3	0.0	0.0	0.0	113.5	59.4	323.8
	Total	**17**	**0.0**	**0.0**	**0.0**	**643.4**	**336.7**	**1,835.0**

Table C-3. 2005 Texas Statewide Emissions, by County: SIC 2048 (Prepared Feeds, Not Elsewhere Classified)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48013	Atascosa	1	0.0	0.0	0.0	27.8	8.8	48.0
48021	Bastrop	1	0.0	0.0	0.0	27.8	8.8	48.0
48023	Baylor	1	0.0	0.0	0.0	27.8	8.8	48.0
48029	Bexar	1	0.0	0.0	0.0	27.8	8.8	48.0
48035	Bosque	1	0.0	0.0	0.0	27.8	8.8	48.0
48039	Brazoria	2	0.0	0.0	0.0	55.6	17.6	96.0
48049	Brown	1	0.0	0.0	0.0	27.8	8.8	48.0
48055	Caldwell	1	0.0	0.0	0.0	27.8	8.8	48.0
48063	Camp	1	0.0	0.0	0.0	27.8	8.8	48.0
48069	Castro	1	0.0	0.0	0.0	27.8	8.8	48.0
48077	Clay	1	0.0	0.0	0.0	27.8	8.8	48.0
48089	Colorado	1	0.0	0.0	0.0	27.8	8.8	48.0
48091	Comal	1	0.0	0.0	0.0	27.8	8.8	48.0
48093	Comanche	3	0.0	0.0	0.0	83.4	26.4	144.0
48097	Cooke	3	0.0	0.0	0.0	83.4	26.4	144.0
48099	Coryell	1	0.0	0.0	0.0	27.8	8.8	48.0
48113	Dallas	4	0.0	0.0	0.0	111.2	35.2	192.0
48117	Deaf Smith	3	0.0	0.0	0.0	83.4	26.4	144.0
48123	DeWitt	1	0.0	0.0	0.0	27.8	8.8	48.0
48133	Eastland	1	0.0	0.0	0.0	27.8	8.8	48.0
48141	El Paso	2	0.0	0.0	0.0	55.6	17.6	96.0
48149	Fayette	1	0.0	0.0	0.0	27.8	8.8	48.0
48157	Fort Bend	1	0.0	0.0	0.0	27.8	8.8	48.0
48171	Gillespie	1	0.0	0.0	0.0	27.8	8.8	48.0
48177	Gonzales	4	0.0	0.0	0.0	111.2	35.2	192.0
48183	Gregg	1	0.0	0.0	0.0	27.8	8.8	48.0
48187	Guadalupe	1	0.0	0.0	0.0	27.8	8.8	48.0
48193	Hamilton	1	0.0	0.0	0.0	27.8	8.8	48.0
48203	Harrison	1	0.0	0.0	0.0	27.8	8.8	48.0
48207	Haskell	1	0.0	0.0	0.0	27.8	8.8	48.0
48215	Hidalgo	1	0.0	0.0	0.0	27.8	8.8	48.0
48223	Hopkins	4	0.0	0.0	0.0	111.2	35.2	192.0
48251	Johnson	1	0.0	0.0	0.0	27.8	8.8	48.0
48253	Jones	3	0.0	0.0	0.0	83.4	26.4	144.0
48257	Kaufman	1	0.0	0.0	0.0	27.8	8.8	48.0
48277	Lamar	2	0.0	0.0	0.0	55.6	17.6	96.0
48281	Lampasas	1	0.0	0.0	0.0	27.8	8.8	48.0
48285	Lavaca	1	0.0	0.0	0.0	27.8	8.8	48.0
48287	Lee	1	0.0	0.0	0.0	27.8	8.8	48.0
48289	Leon	1	0.0	0.0	0.0	27.8	8.8	48.0
48299	Llano	1	0.0	0.0	0.0	27.8	8.8	48.0
48303	Lubbock	4	0.0	0.0	0.0	111.2	35.2	192.0
48307	McCulloch	1	0.0	0.0	0.0	27.8	8.8	48.0
48309	McLennan	3	0.0	0.0	0.0	83.4	26.4	144.0
48347	Nacogdoches	2	0.0	0.0	0.0	55.6	17.6	96.0
48353	Nolan	2	0.0	0.0	0.0	55.6	17.6	96.0
48365	Panola	1	0.0	0.0	0.0	27.8	8.8	48.0
48367	Parker	3	0.0	0.0	0.0	83.4	26.4	144.0
48369	Parmer	2	0.0	0.0	0.0	55.6	17.6	96.0
48371	Pecos	1	0.0	0.0	0.0	27.8	8.8	48.0
48373	Polk	1	0.0	0.0	0.0	27.8	8.8	48.0
48375	Potter	1	0.0	0.0	0.0	27.8	8.8	48.0
48377	Presidio	1	0.0	0.0	0.0	27.8	8.8	48.0
48381	Randall	1	0.0	0.0	0.0	27.8	8.8	48.0
48399	Runnels	2	0.0	0.0	0.0	55.6	17.6	96.0
48411	San Saba	1	0.0	0.0	0.0	27.8	8.8	48.0

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48415	Scurry	1	0.0	0.0	0.0	27.8	8.8	48.0
48419	Shelby	2	0.0	0.0	0.0	55.6	17.6	96.0
48421	Sherman	1	0.0	0.0	0.0	27.8	8.8	48.0
48423	Smith	1	0.0	0.0	0.0	27.8	8.8	48.0
48439	Tarrant	2	0.0	0.0	0.0	55.6	17.6	96.0
48441	Taylor	1	0.0	0.0	0.0	27.8	8.8	48.0
48445	Terry	1	0.0	0.0	0.0	27.8	8.8	48.0
48449	Titus	1	0.0	0.0	0.0	27.8	8.8	48.0
48451	Tom Green	3	0.0	0.0	0.0	83.4	26.4	144.0
48459	Upshur	1	0.0	0.0	0.0	27.8	8.8	48.0
48463	Uvalde	1	0.0	0.0	0.0	27.8	8.8	48.0
48493	Wilson	1	0.0	0.0	0.0	27.8	8.8	48.0
48497	Wise	1	0.0	0.0	0.0	27.8	8.8	48.0
48499	Wood	1	0.0	0.0	0.0	27.8	8.8	48.0
	Total	**105**	**0.0**	**0.0**	**0.0**	**2,920.2**	**924.7**	**5,039.5**

Table C-4. 2005 Texas Statewide Emissions, by County: SIC 2051 (Bread, Cake, & Related Products)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48005	Angelina	1	0.0	0.0	0.0	1.6	0.6	3.0
48027	Bell	2	0.0	0.0	0.0	3.1	1.1	6.1
48029	Bexar	6	0.0	0.0	0.0	9.4	3.4	18.3
48041	Brazos	1	0.0	0.0	0.0	1.6	0.6	3.0
48051	Burleson	1	0.0	0.0	0.0	1.6	0.6	3.0
48061	Cameron	2	0.0	0.0	0.0	3.1	1.1	6.1
48073	Cherokee	1	0.0	0.0	0.0	1.6	0.6	3.0
48085	Collin	1	0.0	0.0	0.0	1.6	0.6	3.0
48089	Colorado	1	0.0	0.0	0.0	1.6	0.6	3.0
48113	Dallas	12	0.0	0.0	0.0	18.9	6.7	36.5
48121	Denton	2	0.0	0.0	0.0	3.1	1.1	6.1
48141	El Paso	3	0.0	0.0	0.0	4.7	1.7	9.1
48149	Fayette	1	0.0	0.0	0.0	1.6	0.6	3.0
48157	Fort Bend	2	0.0	0.0	0.0	3.1	1.1	6.1
48181	Grayson	1	0.0	0.0	0.0	1.6	0.6	3.0
48191	Hall	1	0.0	0.0	0.0	1.6	0.6	3.0
48201	Harris	19	0.0	0.0	0.0	29.9	10.6	57.9
48209	Hays	4	0.0	0.0	0.0	6.3	2.2	12.2
48213	Henderson	1	0.0	0.0	0.0	1.6	0.6	3.0
48215	Hidalgo	3	0.0	0.0	0.0	4.7	1.7	9.1
48231	Hunt	1	0.0	0.0	0.0	1.6	0.6	3.0
48241	Jasper	1	0.0	0.0	0.0	1.6	0.6	3.0
48259	Kendall	1	0.0	0.0	0.0	1.6	0.6	3.0
48273	Kleberg	1	0.0	0.0	0.0	1.6	0.6	3.0
48303	Lubbock	2	0.0	0.0	0.0	3.1	1.1	6.1
48309	McLennan	2	0.0	0.0	0.0	3.1	1.1	6.1
48355	Nueces	5	0.0	0.0	0.0	7.9	2.8	15.2
48381	Randall	1	0.0	0.0	0.0	1.6	0.6	3.0
48407	San Jacinto	1	0.0	0.0	0.0	1.6	0.6	3.0
48423	Smith	1	0.0	0.0	0.0	1.6	0.6	3.0
48439	Tarrant	8	0.0	0.0	0.0	12.6	4.5	24.4
48441	Taylor	1	0.0	0.0	0.0	1.6	0.6	3.0
48453	Travis	1	0.0	0.0	0.0	1.6	0.6	3.0
48479	Webb	1	0.0	0.0	0.0	1.6	0.6	3.0
48505	Zapata	1	0.0	0.0	0.0	1.6	0.6	3.0
	Total	**93**	**0.0**	**0.0**	**0.0**	**146.2**	**52.0**	**283.2**

Table C-5. 2005 Texas Statewide Emissions, by County: SIC 2421 (Sawmills & Planing Mills, General)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48001	Anderson	1	0.0	0.0	0.0	10.7	5.0	27.3
48021	Bastrop	2	0.0	0.0	0.0	21.3	9.9	54.7
48029	Bexar	1	0.0	0.0	0.0	10.7	5.0	27.3
48037	Bowie	1	0.0	0.0	0.0	10.7	5.0	27.3
48067	Cass	2	0.0	0.0	0.0	21.3	9.9	54.7
48073	Cherokee	1	0.0	0.0	0.0	10.7	5.0	27.3
48113	Dallas	2	0.0	0.0	0.0	21.3	9.9	54.7
48121	Denton	1	0.0	0.0	0.0	10.7	5.0	27.3
48139	Ellis	1	0.0	0.0	0.0	10.7	5.0	27.3
48157	Fort Bend	1	0.0	0.0	0.0	10.7	5.0	27.3
48183	Gregg	1	0.0	0.0	0.0	10.7	5.0	27.3
48185	Grimes	1	0.0	0.0	0.0	10.7	5.0	27.3
48187	Guadalupe	1	0.0	0.0	0.0	10.7	5.0	27.3
48199	Hardin	2	0.0	0.0	0.0	21.3	9.9	54.7
48201	Harris	4	0.0	0.0	0.0	42.6	19.8	109.3
48225	Houston	1	0.0	0.0	0.0	10.7	5.0	27.3
48265	Kerr	1	0.0	0.0	0.0	10.7	5.0	27.3
48287	Lee	1	0.0	0.0	0.0	10.7	5.0	27.3
48289	Leon	1	0.0	0.0	0.0	10.7	5.0	27.3
48291	Liberty	1	0.0	0.0	0.0	10.7	5.0	27.3
48315	Marion	2	0.0	0.0	0.0	21.3	9.9	54.7
48327	Menard	1	0.0	0.0	0.0	10.7	5.0	27.3
48337	Montague	1	0.0	0.0	0.0	10.7	5.0	27.3
48339	Montgomery	2	0.0	0.0	0.0	21.3	9.9	54.7
48343	Morris	2	0.0	0.0	0.0	21.3	9.9	54.7
48347	Nacogdoches	10	0.0	0.0	0.0	106.5	49.5	273.3
48351	Newton	2	0.0	0.0	0.0	21.3	9.9	54.7
48361	Orange	1	0.0	0.0	0.0	10.7	5.0	27.3
48365	Panola	1	0.0	0.0	0.0	10.7	5.0	27.3
48373	Polk	4	0.0	0.0	0.0	42.6	19.8	109.3
48387	Red River	1	0.0	0.0	0.0	10.7	5.0	27.3
48401	Rusk	1	0.0	0.0	0.0	10.7	5.0	27.3
48403	Sabine	2	0.0	0.0	0.0	21.3	9.9	54.7
48405	San Augustine	1	0.0	0.0	0.0	10.7	5.0	27.3
48407	San Jacinto	1	0.0	0.0	0.0	10.7	5.0	27.3
48419	Shelby	3	0.0	0.0	0.0	32.0	14.9	82.0
48423	Smith	3	0.0	0.0	0.0	32.0	14.9	82.0
48439	Tarrant	2	0.0	0.0	0.0	21.3	9.9	54.7
48449	Titus	1	0.0	0.0	0.0	10.7	5.0	27.3
48453	Travis	2	0.0	0.0	0.0	21.3	9.9	54.7
48455	Trinity	1	0.0	0.0	0.0	10.7	5.0	27.3
48457	Tyler	1	0.0	0.0	0.0	10.7	5.0	27.3
48463	Uvalde	1	0.0	0.0	0.0	10.7	5.0	27.3
48499	Wood	1	0.0	0.0	0.0	10.7	5.0	27.3
	Total	**74**	**0.0**	**0.0**	**0.0**	**788.2**	**366.5**	**2,022.4**

Table C-6. 2005 Texas Statewide Emissions, by County: SIC 2491 (Wood Preserving)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48005	Angelina	1	0.0	0.0	0.0	31.2	8.1	49.9
48053	Burnet	1	0.0	0.0	0.0	31.2	8.1	49.9
48073	Cherokee	2	0.0	0.0	0.0	62.5	16.2	99.7
48089	Colorado	1	0.0	0.0	0.0	31.2	8.1	49.9
48113	Dallas	2	0.0	0.0	0.0	62.5	16.2	99.7
48157	Fort Bend	1	0.0	0.0	0.0	31.2	8.1	49.9
48199	Hardin	1	0.0	0.0	0.0	31.2	8.1	49.9
48201	Harris	3	0.0	0.0	0.0	93.7	24.4	149.6
48367	Parker	1	0.0	0.0	0.0	31.2	8.1	49.9
48387	Red River	1	0.0	0.0	0.0	31.2	8.1	49.9
48423	Smith	1	0.0	0.0	0.0	31.2	8.1	49.9
48439	Tarrant	3	0.0	0.0	0.0	93.7	24.4	149.6
48451	Tom Green	1	0.0	0.0	0.0	31.2	8.1	49.9
48471	Walker	1	0.0	0.0	0.0	31.2	8.1	49.9
48499	Wood	1	0.0	0.0	0.0	31.2	8.1	49.9
	Total	**21**	**0.0**	**0.0**	**0.0**	**656.0**	**170.6**	**1,047.1**

Table C-7. 2005 Texas Statewide Emissions, by County: SIC 3354 (Aluminum Extruded Products)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48009	Archer	1	22.2	8.1	44.3	0.0	0.0	0.0
48041	Brazos	1	22.2	8.1	44.3	0.0	0.0	0.0
48061	Cameron	1	22.2	8.1	44.3	0.0	0.0	0.0
48141	El Paso	1	22.2	8.1	44.3	0.0	0.0	0.0
48167	Galveston	1	22.2	8.1	44.3	0.0	0.0	0.0
48201	Harris	1	22.2	8.1	44.3	0.0	0.0	0.0
48223	Hopkins	1	22.2	8.1	44.3	0.0	0.0	0.0
48339	Montgomery	1	22.2	8.1	44.3	0.0	0.0	0.0
	Total	**8**	**177.3**	**65.0**	**354.3**	**0.0**	**0.0**	**0.0**

Table C-8. 2005 Texas Statewide Emissions, by County: SIC 3363 (Aluminum Die Castings)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48027	Bell	1	3.5	1.7	9.5	1.5	0.7	4.1
48085	Collin	1	3.5	1.7	9.5	1.5	0.7	4.1
48113	Dallas	1	3.5	1.7	9.5	1.5	0.7	4.1
48183	Gregg	1	3.5	1.7	9.5	1.5	0.7	4.1
48201	Harris	1	3.5	1.7	9.5	1.5	0.7	4.1
48439	Tarrant	1	3.5	1.7	9.5	1.5	0.7	4.1
48485	Wichita	1	3.5	1.7	9.5	1.5	0.7	4.1
	Total	**7**	**24.4**	**12.2**	**66.8**	**10.5**	**5.2**	**28.8**

Table C-9. 2005 Texas Statewide Emissions, by County: SIC 3365 (Aluminum Foundries)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48005	Angelina	1	0.0	0.0	0.0	17.0	2.4	13.1
48113	Dallas	2	0.0	0.0	0.0	34.0	4.8	26.2
48141	El Paso	1	0.0	0.0	0.0	17.0	2.4	13.1
48181	Grayson	1	0.0	0.0	0.0	17.0	2.4	13.1
48183	Gregg	1	0.0	0.0	0.0	17.0	2.4	13.1
48191	Hall	1	0.0	0.0	0.0	17.0	2.4	13.1
48201	Harris	2	0.0	0.0	0.0	34.0	4.8	26.2
48215	Hidalgo	1	0.0	0.0	0.0	17.0	2.4	13.1
48217	Hill	1	0.0	0.0	0.0	17.0	2.4	13.1
48257	Kaufman	1	0.0	0.0	0.0	17.0	2.4	13.1
48353	Nolan	1	0.0	0.0	0.0	17.0	2.4	13.1
48439	Tarrant	7	0.0	0.0	0.0	119.0	16.8	91.7
48485	Wichita	1	0.0	0.0	0.0	17.0	2.4	13.1
	Total	**21**	**0.0**	**0.0**	**0.0**	**356.9**	**50.5**	**275.0**

Table C-10. 2005 Texas Statewide Emissions, by County: SIC 3369 (Nonferrous Foundries, Not Elsewhere Classified)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48183	Gregg	1	1.7	0.8	4.5	45.3	22.6	123.4
48201	Harris	1	1.7	0.8	4.5	45.3	22.6	123.4
48439	Tarrant	1	1.7	0.8	4.5	45.3	22.6	123.4
	Total	**3**	**5.0**	**2.5**	**13.6**	**135.9**	**67.9**	**370.3**

Table C-11. 2005 Texas Statewide Emissions, by County: SIC 3441 (Fabricated Structural Metal)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48015	Austin	2	336.3	168.2	933.1	1.1	0.6	3.1
48021	Bastrop	1	168.2	84.1	466.5	0.6	0.3	1.6
48029	Bexar	25	4,203.9	2,102.0	11,663.2	14.2	7.1	39.3
48037	Bowie	2	336.3	168.2	933.1	1.1	0.6	3.1
48039	Brazoria	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48057	Calhoun	1	168.2	84.1	466.5	0.6	0.3	1.6
48059	Callahan	1	168.2	84.1	466.5	0.6	0.3	1.6
48061	Cameron	1	168.2	84.1	466.5	0.6	0.3	1.6
48067	Cass	2	336.3	168.2	933.1	1.1	0.6	3.1
48071	Chambers	1	168.2	84.1	466.5	0.6	0.3	1.6
48073	Cherokee	1	168.2	84.1	466.5	0.6	0.3	1.6
48085	Collin	7	1,177.1	588.5	3,265.7	4.0	2.0	11.0
48091	Comal	2	336.3	168.2	933.1	1.1	0.6	3.1
48097	Cooke	1	168.2	84.1	466.5	0.6	0.3	1.6
48113	Dallas	20	3,363.1	1,681.6	9,330.5	11.3	5.7	31.5
48121	Denton	4	672.6	336.3	1,866.1	2.3	1.1	6.3
48139	Ellis	2	336.3	168.2	933.1	1.1	0.6	3.1
48141	El Paso	2	336.3	168.2	933.1	1.1	0.6	3.1
48157	Fort Bend	2	336.3	168.2	933.1	1.1	0.6	3.1
48167	Galveston	2	336.3	168.2	933.1	1.1	0.6	3.1
48181	Grayson	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48183	Gregg	2	336.3	168.2	933.1	1.1	0.6	3.1
48187	Guadalupe	2	336.3	168.2	933.1	1.1	0.6	3.1
48193	Hamilton	1	168.2	84.1	466.5	0.6	0.3	1.6
48199	Hardin	2	336.3	168.2	933.1	1.1	0.6	3.1
48201	Harris	59	9,921.2	4,960.6	27,525.1	33.4	16.7	92.8
48209	Hays	2	336.3	168.2	933.1	1.1	0.6	3.1
48213	Henderson	1	168.2	84.1	466.5	0.6	0.3	1.6
48215	Hidalgo	2	336.3	168.2	933.1	1.1	0.6	3.1
48223	Hopkins	1	168.2	84.1	466.5	0.6	0.3	1.6
48241	Jasper	1	168.2	84.1	466.5	0.6	0.3	1.6
48245	Jefferson	5	840.8	420.4	2,332.6	2.8	1.4	7.9
48251	Johnson	5	840.8	420.4	2,332.6	2.8	1.4	7.9
48257	Kaufman	2	336.3	168.2	933.1	1.1	0.6	3.1
48285	Lavaca	1	168.2	84.1	466.5	0.6	0.3	1.6
48287	Lee	1	168.2	84.1	466.5	0.6	0.3	1.6
48289	Leon	1	168.2	84.1	466.5	0.6	0.3	1.6
48291	Liberty	2	336.3	168.2	933.1	1.1	0.6	3.1
48299	Llano	1	168.2	84.1	466.5	0.6	0.3	1.6
48303	Lubbock	6	1,008.9	504.5	2,799.2	3.4	1.7	9.4
48309	McLennan	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48321	Matagorda	1	168.2	84.1	466.5	0.6	0.3	1.6
48329	Midland	1	168.2	84.1	466.5	0.6	0.3	1.6
48339	Montgomery	5	840.8	420.4	2,332.6	2.8	1.4	7.9
48343	Morris	1	168.2	84.1	466.5	0.6	0.3	1.6
48355	Nueces	1	168.2	84.1	466.5	0.6	0.3	1.6
48361	Orange	2	336.3	168.2	933.1	1.1	0.6	3.1
48367	Parker	4	672.6	336.3	1,866.1	2.3	1.1	6.3
48375	Potter	1	168.2	84.1	466.5	0.6	0.3	1.6
48381	Randall	2	336.3	168.2	933.1	1.1	0.6	3.1
48387	Red River	1	168.2	84.1	466.5	0.6	0.3	1.6
48391	Refugio	1	168.2	84.1	466.5	0.6	0.3	1.6
48409	San Patricio	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48439	Tarrant	22	3,699.4	1,849.7	10,263.6	12.5	6.2	34.6
48441	Taylor	1	168.2	84.1	466.5	0.6	0.3	1.6
48451	Tom Green	2	336.3	168.2	933.1	1.1	0.6	3.1
48453	Travis	5	840.8	420.4	2,332.6	2.8	1.4	7.9

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48455	Trinity	2	336.3	168.2	933.1	1.1	0.6	3.1
48463	Uvalde	1	168.2	84.1	466.5	0.6	0.3	1.6
48467	Van Zandt	1	168.2	84.1	466.5	0.6	0.3	1.6
48469	Victoria	1	168.2	84.1	466.5	0.6	0.3	1.6
48471	Walker	1	168.2	84.1	466.5	0.6	0.3	1.6
48473	Waller	2	336.3	168.2	933.1	1.1	0.6	3.1
48475	Ward	1	168.2	84.1	466.5	0.6	0.3	1.6
48477	Washington	1	168.2	84.1	466.5	0.6	0.3	1.6
48485	Wichita	2	336.3	168.2	933.1	1.1	0.6	3.1
48491	Williamson	2	336.3	168.2	933.1	1.1	0.6	3.1
48493	Wilson	2	336.3	168.2	933.1	1.1	0.6	3.1
48497	Wise	1	168.2	84.1	466.5	0.6	0.3	1.6
48499	Wood	1	168.2	84.1	466.5	0.6	0.3	1.6
48503	Young	1	168.2	84.1	466.5	0.6	0.3	1.6
	Total	**257**	**43,216.1**	**21,608.1**	**119,897.4**	**145.7**	**72.9**	**404.2**

Table C-12. 2005 Texas Statewide Emissions, by County: SIC 3443 (Fabricated Plate Work, Boiler Shops)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48003	Andrews	1	43.4	4.8	24.4	6.7	0.7	3.8
48005	Angelina	3	130.3	14.3	73.2	20.2	2.2	11.4
48019	Bandera	1	43.4	4.8	24.4	6.7	0.7	3.8
48021	Bastrop	1	43.4	4.8	24.4	6.7	0.7	3.8
48029	Bexar	3	130.3	14.3	73.2	20.2	2.2	11.4
48037	Bowie	1	43.4	4.8	24.4	6.7	0.7	3.8
48039	Brazoria	5	217.1	23.9	122.0	33.7	3.7	18.9
48041	Brazos	3	130.3	14.3	73.2	20.2	2.2	11.4
48049	Brown	1	43.4	4.8	24.4	6.7	0.7	3.8
48051	Burleson	1	43.4	4.8	24.4	6.7	0.7	3.8
48053	Burnet	1	43.4	4.8	24.4	6.7	0.7	3.8
48059	Callahan	1	43.4	4.8	24.4	6.7	0.7	3.8
48061	Cameron	1	43.4	4.8	24.4	6.7	0.7	3.8
48089	Colorado	1	43.4	4.8	24.4	6.7	0.7	3.8
48091	Comal	2	86.9	9.6	48.8	13.5	1.5	7.6
48113	Dallas	12	521.1	57.3	292.7	80.9	8.9	45.5
48135	Ector	6	260.6	28.7	146.4	40.5	4.5	22.7
48141	El Paso	5	217.1	23.9	122.0	33.7	3.7	18.9
48157	Fort Bend	3	130.3	14.3	73.2	20.2	2.2	11.4
48167	Galveston	4	173.7	19.1	97.6	27.0	3.0	15.2
48177	Gonzales	1	43.4	4.8	24.4	6.7	0.7	3.8
48179	Gray	1	43.4	4.8	24.4	6.7	0.7	3.8
48183	Gregg	11	477.7	52.5	268.3	74.2	8.2	41.7
48185	Grimes	1	43.4	4.8	24.4	6.7	0.7	3.8
48197	Hardeman	1	43.4	4.8	24.4	6.7	0.7	3.8
48199	Hardin	1	43.4	4.8	24.4	6.7	0.7	3.8
48201	Harris	57	2,475.4	272.3	1,390.5	384.5	42.3	216.0
48209	Hays	1	43.4	4.8	24.4	6.7	0.7	3.8
48215	Hidalgo	1	43.4	4.8	24.4	6.7	0.7	3.8
48219	Hockley	1	43.4	4.8	24.4	6.7	0.7	3.8
48225	Houston	1	43.4	4.8	24.4	6.7	0.7	3.8
48231	Hunt	1	43.4	4.8	24.4	6.7	0.7	3.8
48233	Hutchinson	1	43.4	4.8	24.4	6.7	0.7	3.8
48245	Jefferson	6	260.6	28.7	146.4	40.5	4.5	22.7
48251	Johnson	3	130.3	14.3	73.2	20.2	2.2	11.4
48289	Leon	2	86.9	9.6	48.8	13.5	1.5	7.6
48291	Liberty	2	86.9	9.6	48.8	13.5	1.5	7.6
48293	Limestone	1	43.4	4.8	24.4	6.7	0.7	3.8
48297	Live Oak	1	43.4	4.8	24.4	6.7	0.7	3.8
48303	Lubbock	5	217.1	23.9	122.0	33.7	3.7	18.9
48309	McLennan	3	130.3	14.3	73.2	20.2	2.2	11.4
48313	Madison	1	43.4	4.8	24.4	6.7	0.7	3.8
48321	Matagorda	1	43.4	4.8	24.4	6.7	0.7	3.8
48329	Midland	2	86.9	9.6	48.8	13.5	1.5	7.6
48339	Montgomery	8	347.4	38.2	195.2	54.0	5.9	30.3
48355	Nueces	7	304.0	33.4	170.8	47.2	5.2	26.5
48361	Orange	1	43.4	4.8	24.4	6.7	0.7	3.8
48367	Parker	1	43.4	4.8	24.4	6.7	0.7	3.8
48373	Polk	1	43.4	4.8	24.4	6.7	0.7	3.8
48375	Potter	3	130.3	14.3	73.2	20.2	2.2	11.4
48381	Randall	1	43.4	4.8	24.4	6.7	0.7	3.8
48409	San Patricio	1	43.4	4.8	24.4	6.7	0.7	3.8
48415	Scurry	1	43.4	4.8	24.4	6.7	0.7	3.8
48417	Shackelford	1	43.4	4.8	24.4	6.7	0.7	3.8
48423	Smith	2	86.9	9.6	48.8	13.5	1.5	7.6
48439	Tarrant	16	694.9	76.4	390.3	107.9	11.9	60.6
48441	Taylor	2	86.9	9.6	48.8	13.5	1.5	7.6

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48449	Titus	1	43.4	4.8	24.4	6.7	0.7	3.8
48451	Tom Green	2	86.9	9.6	48.8	13.5	1.5	7.6
48453	Travis	5	217.1	23.9	122.0	33.7	3.7	18.9
48455	Trinity	1	43.4	4.8	24.4	6.7	0.7	3.8
48457	Tyler	1	43.4	4.8	24.4	6.7	0.7	3.8
48459	Upshur	1	43.4	4.8	24.4	6.7	0.7	3.8
48467	Van Zandt	1	43.4	4.8	24.4	6.7	0.7	3.8
48469	Victoria	1	43.4	4.8	24.4	6.7	0.7	3.8
48479	Webb	1	43.4	4.8	24.4	6.7	0.7	3.8
48485	Wichita	6	260.6	28.7	146.4	40.5	4.5	22.7
48493	Wilson	1	43.4	4.8	24.4	6.7	0.7	3.8
48497	Wise	1	43.4	4.8	24.4	6.7	0.7	3.8
48505	Zapata	1	43.4	4.8	24.4	6.7	0.7	3.8
	Total	**230**	**9,988.5**	**1,098.7**	**5,610.9**	**1,551.4**	**170.7**	**871.5**

Table C-13. 2005 Texas Statewide Emissions, by County: SIC 3471 (Plating & Polishing)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48029	Bexar	7	74.4	38.2	212.7	42.8	22.0	122.4
48039	Brazoria	1	10.6	5.5	30.4	6.1	3.1	17.5
48043	Brewster	1	10.6	5.5	30.4	6.1	3.1	17.5
48085	Collin	3	31.9	16.4	91.2	18.3	9.4	52.4
48113	Dallas	27	286.9	147.3	820.5	165.0	84.7	472.0
48121	Denton	1	10.6	5.5	30.4	6.1	3.1	17.5
48135	Ector	1	10.6	5.5	30.4	6.1	3.1	17.5
48141	El Paso	4	42.5	21.8	121.6	24.4	12.5	69.9
48157	Fort Bend	1	10.6	5.5	30.4	6.1	3.1	17.5
48167	Galveston	1	10.6	5.5	30.4	6.1	3.1	17.5
48181	Grayson	4	42.5	21.8	121.6	24.4	12.5	69.9
48187	Guadalupe	1	10.6	5.5	30.4	6.1	3.1	17.5
48201	Harris	30	318.7	163.6	911.7	183.3	94.1	524.4
48203	Harrison	3	31.9	16.4	91.2	18.3	9.4	52.4
48215	Hidalgo	1	10.6	5.5	30.4	6.1	3.1	17.5
48245	Jefferson	2	21.2	10.9	60.8	12.2	6.3	35.0
48251	Johnson	1	10.6	5.5	30.4	6.1	3.1	17.5
48285	Lavaca	1	10.6	5.5	30.4	6.1	3.1	17.5
48291	Liberty	1	10.6	5.5	30.4	6.1	3.1	17.5
48303	Lubbock	2	21.2	10.9	60.8	12.2	6.3	35.0
48309	McLennan	2	21.2	10.9	60.8	12.2	6.3	35.0
48329	Midland	1	10.6	5.5	30.4	6.1	3.1	17.5
48339	Montgomery	2	21.2	10.9	60.8	12.2	6.3	35.0
48349	Navarro	1	10.6	5.5	30.4	6.1	3.1	17.5
48367	Parker	1	10.6	5.5	30.4	6.1	3.1	17.5
48423	Smith	1	10.6	5.5	30.4	6.1	3.1	17.5
48439	Tarrant	15	159.4	81.8	455.9	91.7	47.1	262.2
48441	Taylor	1	10.6	5.5	30.4	6.1	3.1	17.5
48453	Travis	3	31.9	16.4	91.2	18.3	9.4	52.4
48485	Wichita	1	10.6	5.5	30.4	6.1	3.1	17.5
48491	Williamson	4	42.5	21.8	121.6	24.4	12.5	69.9
48493	Wilson	1	10.6	5.5	30.4	6.1	3.1	17.5
	Total	**126**	**1,338.7**	**687.2**	**3,829.2**	**770.0**	**395.3**	**2,202.4**

Table C-14. 2005 Texas Statewide Emissions, by County: SIC 3479 (Metal Coating & Allied Services)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48001	Anderson	1	5.0	2.6	14.2	2.5	1.3	7.2
48015	Austin	1	5.0	2.6	14.2	2.5	1.3	7.2
48029	Bexar	8	40.0	20.8	113.4	20.3	10.5	57.4
48037	Bowie	1	5.0	2.6	14.2	2.5	1.3	7.2
48071	Chambers	1	5.0	2.6	14.2	2.5	1.3	7.2
48085	Collin	1	5.0	2.6	14.2	2.5	1.3	7.2
48089	Colorado	1	5.0	2.6	14.2	2.5	1.3	7.2
48097	Cooke	1	5.0	2.6	14.2	2.5	1.3	7.2
48113	Dallas	22	109.9	57.2	311.7	55.7	29.0	158.0
48121	Denton	3	15.0	7.8	42.5	7.6	4.0	21.5
48133	Eastland	1	5.0	2.6	14.2	2.5	1.3	7.2
48135	Ector	5	25.0	13.0	70.8	12.7	6.6	35.9
48139	Ellis	2	10.0	5.2	28.3	5.1	2.6	14.4
48141	El Paso	1	5.0	2.6	14.2	2.5	1.3	7.2
48143	Erath	2	10.0	5.2	28.3	5.1	2.6	14.4
48157	Fort Bend	6	30.0	15.6	85.0	15.2	7.9	43.1
48167	Galveston	1	5.0	2.6	14.2	2.5	1.3	7.2
48181	Grayson	1	5.0	2.6	14.2	2.5	1.3	7.2
48183	Gregg	3	15.0	7.8	42.5	7.6	4.0	21.5
48199	Hardin	1	5.0	2.6	14.2	2.5	1.3	7.2
48201	Harris	35	174.9	90.9	495.9	88.6	46.1	251.3
48209	Hays	1	5.0	2.6	14.2	2.5	1.3	7.2
48215	Hidalgo	3	15.0	7.8	42.5	7.6	4.0	21.5
48219	Hockley	1	5.0	2.6	14.2	2.5	1.3	7.2
48233	Hutchinson	1	5.0	2.6	14.2	2.5	1.3	7.2
48245	Jefferson	1	5.0	2.6	14.2	2.5	1.3	7.2
48251	Johnson	3	15.0	7.8	42.5	7.6	4.0	21.5
48257	Kaufman	1	5.0	2.6	14.2	2.5	1.3	7.2
48293	Limestone	1	5.0	2.6	14.2	2.5	1.3	7.2
48303	Lubbock	1	5.0	2.6	14.2	2.5	1.3	7.2
48309	McLennan	1	5.0	2.6	14.2	2.5	1.3	7.2
48329	Midland	2	10.0	5.2	28.3	5.1	2.6	14.4
48339	Montgomery	1	5.0	2.6	14.2	2.5	1.3	7.2
48355	Nueces	4	20.0	10.4	56.7	10.1	5.3	28.7
48367	Parker	1	5.0	2.6	14.2	2.5	1.3	7.2
48409	San Patricio	1	5.0	2.6	14.2	2.5	1.3	7.2
48439	Tarrant	11	55.0	28.6	155.9	27.9	14.5	79.0
48441	Taylor	1	5.0	2.6	14.2	2.5	1.3	7.2
48453	Travis	2	10.0	5.2	28.3	5.1	2.6	14.4
48491	Williamson	1	5.0	2.6	14.2	2.5	1.3	7.2
48497	Wise	1	5.0	2.6	14.2	2.5	1.3	7.2
	Total	**137**	**684.6**	**356.0**	**1,941.3**	**346.9**	**180.4**	**983.8**

Table C-15. 2005 Texas Statewide Emissions, by County: SIC 3499 (Fabricated Metal Products, Not Elsewhere Classified)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48005	Angelina	1	11.0	5.3	30.9	1.8	0.9	5.0
48027	Bell	1	11.0	5.3	30.9	1.8	0.9	5.0
48029	Bexar	1	11.0	5.3	30.9	1.8	0.9	5.0
48039	Brazoria	5	54.9	26.5	154.6	8.9	4.3	25.0
48053	Burnet	1	11.0	5.3	30.9	1.8	0.9	5.0
48059	Callahan	1	11.0	5.3	30.9	1.8	0.9	5.0
48061	Cameron	1	11.0	5.3	30.9	1.8	0.9	5.0
48085	Collin	2	22.0	10.6	61.9	3.5	1.7	10.0
48097	Cooke	1	11.0	5.3	30.9	1.8	0.9	5.0
48113	Dallas	11	120.8	58.4	340.2	19.5	9.4	55.0
48121	Denton	4	43.9	21.2	123.7	7.1	3.4	20.0
48135	Ector	4	43.9	21.2	123.7	7.1	3.4	20.0
48139	Ellis	3	32.9	15.9	92.8	5.3	2.6	15.0
48145	Falls	1	11.0	5.3	30.9	1.8	0.9	5.0
48167	Galveston	1	11.0	5.3	30.9	1.8	0.9	5.0
48171	Gillespie	1	11.0	5.3	30.9	1.8	0.9	5.0
48177	Gonzales	1	11.0	5.3	30.9	1.8	0.9	5.0
48181	Grayson	1	11.0	5.3	30.9	1.8	0.9	5.0
48183	Gregg	5	54.9	26.5	154.6	8.9	4.3	25.0
48187	Guadalupe	1	11.0	5.3	30.9	1.8	0.9	5.0
48201	Harris	27	296.5	143.3	835.1	47.9	23.2	135.0
48209	Hays	1	11.0	5.3	30.9	1.8	0.9	5.0
48215	Hidalgo	2	22.0	10.6	61.9	3.5	1.7	10.0
48227	Howard	1	11.0	5.3	30.9	1.8	0.9	5.0
48231	Hunt	1	11.0	5.3	30.9	1.8	0.9	5.0
48239	Jackson	1	11.0	5.3	30.9	1.8	0.9	5.0
48259	Kendall	1	11.0	5.3	30.9	1.8	0.9	5.0
48273	Kleberg	1	11.0	5.3	30.9	1.8	0.9	5.0
48291	Liberty	1	11.0	5.3	30.9	1.8	0.9	5.0
48299	Llano	2	22.0	10.6	61.9	3.5	1.7	10.0
48303	Lubbock	1	11.0	5.3	30.9	1.8	0.9	5.0
48309	McLennan	4	43.9	21.2	123.7	7.1	3.4	20.0
48313	Madison	1	11.0	5.3	30.9	1.8	0.9	5.0
48321	Matagorda	1	11.0	5.3	30.9	1.8	0.9	5.0
48331	Milam	1	11.0	5.3	30.9	1.8	0.9	5.0
48339	Montgomery	6	65.9	31.8	185.6	10.6	5.1	30.0
48343	Morris	1	11.0	5.3	30.9	1.8	0.9	5.0
48355	Nueces	1	11.0	5.3	30.9	1.8	0.9	5.0
48361	Orange	3	32.9	15.9	92.8	5.3	2.6	15.0
48367	Parker	1	11.0	5.3	30.9	1.8	0.9	5.0
48401	Rusk	1	11.0	5.3	30.9	1.8	0.9	5.0
48423	Smith	2	22.0	10.6	61.9	3.5	1.7	10.0
48437	Swisher	1	11.0	5.3	30.9	1.8	0.9	5.0
48439	Tarrant	18	197.6	95.5	556.7	31.9	15.4	90.0
48441	Taylor	1	11.0	5.3	30.9	1.8	0.9	5.0
48449	Titus	1	11.0	5.3	30.9	1.8	0.9	5.0
48453	Travis	2	22.0	10.6	61.9	3.5	1.7	10.0
48455	Trinity	1	11.0	5.3	30.9	1.8	0.9	5.0
48459	Upshur	1	11.0	5.3	30.9	1.8	0.9	5.0
48467	Van Zandt	2	22.0	10.6	61.9	3.5	1.7	10.0
48469	Victoria	1	11.0	5.3	30.9	1.8	0.9	5.0
48479	Webb	1	11.0	5.3	30.9	1.8	0.9	5.0
48485	Wichita	1	11.0	5.3	30.9	1.8	0.9	5.0
48491	Williamson	1	11.0	5.3	30.9	1.8	0.9	5.0
48499	Wood	2	22.0	10.6	61.9	3.5	1.7	10.0
	Total	**141**	**1,548.2**	**748.3**	**4,361.0**	**250.2**	**120.9**	**704.8**

APPENDIX D

2008 TEXAS STATEWIDE EMISSIONS BY SIC AND COUNTY

Table D-1. 2008 Texas Statewide Emissions, by County: SIC 2013 (Sausages & Other Prepared Meats)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48005	Angelina	2	6.2	0.9	4.7	4.2	0.6	3.2
48009	Archer	1	3.1	0.4	2.4	2.1	0.3	1.6
48021	Bastrop	2	6.2	0.9	4.7	4.2	0.6	3.2
48029	Bexar	9	28.0	3.9	21.4	18.9	2.6	14.4
48051	Burleson	3	9.3	1.3	7.1	6.3	0.9	4.8
48063	Camp	1	3.1	0.4	2.4	2.1	0.3	1.6
48085	Collin	1	3.1	0.4	2.4	2.1	0.3	1.6
48091	Comal	3	9.3	1.3	7.1	6.3	0.9	4.8
48113	Dallas	6	18.7	2.6	14.2	12.6	1.8	9.6
48121	Denton	2	6.2	0.9	4.7	4.2	0.6	3.2
48123	DeWitt	2	6.2	0.9	4.7	4.2	0.6	3.2
48141	El Paso	3	9.3	1.3	7.1	6.3	0.9	4.8
48149	Fayette	3	9.3	1.3	7.1	6.3	0.9	4.8
48157	Fort Bend	2	6.2	0.9	4.7	4.2	0.6	3.2
48171	Gillespie	2	6.2	0.9	4.7	4.2	0.6	3.2
48177	Gonzales	1	3.1	0.4	2.4	2.1	0.3	1.6
48193	Hamilton	1	3.1	0.4	2.4	2.1	0.3	1.6
48199	Hardin	1	3.1	0.4	2.4	2.1	0.3	1.6
48201	Harris	8	24.9	3.5	19.0	16.8	2.3	12.8
48203	Harrison	1	3.1	0.4	2.4	2.1	0.3	1.6
48215	Hidalgo	2	6.2	0.9	4.7	4.2	0.6	3.2
48217	Hill	1	3.1	0.4	2.4	2.1	0.3	1.6
48223	Hopkins	1	3.1	0.4	2.4	2.1	0.3	1.6
48245	Jefferson	2	6.2	0.9	4.7	4.2	0.6	3.2
48251	Johnson	1	3.1	0.4	2.4	2.1	0.3	1.6
48255	Karnes	1	3.1	0.4	2.4	2.1	0.3	1.6
48257	Kaufman	1	3.1	0.4	2.4	2.1	0.3	1.6
48285	Lavaca	3	9.3	1.3	7.1	6.3	0.9	4.8
48303	Lubbock	2	6.2	0.9	4.7	4.2	0.6	3.2
48321	Matagorda	1	3.1	0.4	2.4	2.1	0.3	1.6
48325	Medina	1	3.1	0.4	2.4	2.1	0.3	1.6
48327	Menard	1	3.1	0.4	2.4	2.1	0.3	1.6
48355	Nueces	2	6.2	0.9	4.7	4.2	0.6	3.2
48361	Orange	1	3.1	0.4	2.4	2.1	0.3	1.6
48367	Parker	1	3.1	0.4	2.4	2.1	0.3	1.6
48375	Potter	2	6.2	0.9	4.7	4.2	0.6	3.2
48399	Runnels	3	9.3	1.3	7.1	6.3	0.9	4.8
48401	Rusk	1	3.1	0.4	2.4	2.1	0.3	1.6
48423	Smith	2	6.2	0.9	4.7	4.2	0.6	3.2
48439	Tarrant	7	21.8	3.0	16.6	14.7	2.1	11.2
48447	Throckmorton	1	3.1	0.4	2.4	2.1	0.3	1.6
48453	Travis	3	9.3	1.3	7.1	6.3	0.9	4.8
48463	Uvalde	1	3.1	0.4	2.4	2.1	0.3	1.6
48477	Washington	3	9.3	1.3	7.1	6.3	0.9	4.8
48481	Wharton	1	3.1	0.4	2.4	2.1	0.3	1.6
48485	Wichita	1	3.1	0.4	2.4	2.1	0.3	1.6
48487	Wilbarger	1	3.1	0.4	2.4	2.1	0.3	1.6
48489	Willacy	1	3.1	0.4	2.4	2.1	0.3	1.6
48491	Williamson	2	6.2	0.9	4.7	4.2	0.6	3.2
	Total	**104**	**323.4**	**45.3**	**246.8**	**218.1**	**30.5**	**166.4**

Table D-2. 2008 Texas Statewide Emissions, by County: SIC 2041 (Flour & Other Grain Mill Products)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48017	Bailey	1	0.0	0.0	0.0	37.8	19.8	107.9
48029	Bexar	1	0.0	0.0	0.0	37.8	19.8	107.9
48091	Comal	1	0.0	0.0	0.0	37.8	19.8	107.9
48113	Dallas	1	0.0	0.0	0.0	37.8	19.8	107.9
48117	Deaf Smith	2	0.0	0.0	0.0	75.7	39.6	215.9
48121	Denton	1	0.0	0.0	0.0	37.8	19.8	107.9
48157	Fort Bend	1	0.0	0.0	0.0	37.8	19.8	107.9
48181	Grayson	1	0.0	0.0	0.0	37.8	19.8	107.9
48189	Hale	1	0.0	0.0	0.0	37.8	19.8	107.9
48201	Harris	3	0.0	0.0	0.0	113.5	59.4	323.8
48215	Hidalgo	1	0.0	0.0	0.0	37.8	19.8	107.9
48309	McLennan	1	0.0	0.0	0.0	37.8	19.8	107.9
48423	Smith	1	0.0	0.0	0.0	37.8	19.8	107.9
48439	Tarrant	2	0.0	0.0	0.0	75.7	39.6	215.9
	Total	**18**	**0.0**	**0.0**	**0.0**	**681.3**	**356.5**	**1,942.9**

Table D-3. 2008 Texas Statewide Emissions, by County: SIC 2048 (Prepared Feeds, Not Elsewhere Classified)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48013	Atascosa	1	0.0	0.0	0.0	27.8	8.8	48.0
48021	Bastrop	1	0.0	0.0	0.0	27.8	8.8	48.0
48023	Baylor	1	0.0	0.0	0.0	27.8	8.8	48.0
48027	Bell	1	0.0	0.0	0.0	27.8	8.8	48.0
48029	Bexar	1	0.0	0.0	0.0	27.8	8.8	48.0
48035	Bosque	2	0.0	0.0	0.0	55.6	17.6	96.0
48039	Brazoria	2	0.0	0.0	0.0	55.6	17.6	96.0
48049	Brown	1	0.0	0.0	0.0	27.8	8.8	48.0
48055	Caldwell	1	0.0	0.0	0.0	27.8	8.8	48.0
48063	Camp	1	0.0	0.0	0.0	27.8	8.8	48.0
48069	Castro	1	0.0	0.0	0.0	27.8	8.8	48.0
48089	Colorado	1	0.0	0.0	0.0	27.8	8.8	48.0
48091	Comal	1	0.0	0.0	0.0	27.8	8.8	48.0
48093	Comanche	3	0.0	0.0	0.0	83.4	26.4	144.0
48097	Cooke	1	0.0	0.0	0.0	27.8	8.8	48.0
48099	Coryell	1	0.0	0.0	0.0	27.8	8.8	48.0
48113	Dallas	3	0.0	0.0	0.0	83.4	26.4	144.0
48117	Deaf Smith	4	0.0	0.0	0.0	111.2	35.2	192.0
48123	DeWitt	1	0.0	0.0	0.0	27.8	8.8	48.0
48133	Eastland	1	0.0	0.0	0.0	27.8	8.8	48.0
48141	El Paso	3	0.0	0.0	0.0	83.4	26.4	144.0
48149	Fayette	1	0.0	0.0	0.0	27.8	8.8	48.0
48157	Fort Bend	1	0.0	0.0	0.0	27.8	8.8	48.0
48171	Gillespie	1	0.0	0.0	0.0	27.8	8.8	48.0
48177	Gonzales	4	0.0	0.0	0.0	111.2	35.2	192.0
48187	Guadalupe	1	0.0	0.0	0.0	27.8	8.8	48.0
48193	Hamilton	1	0.0	0.0	0.0	27.8	8.8	48.0
48203	Harrison	1	0.0	0.0	0.0	27.8	8.8	48.0
48207	Haskell	1	0.0	0.0	0.0	27.8	8.8	48.0
48215	Hidalgo	1	0.0	0.0	0.0	27.8	8.8	48.0
48223	Hopkins	4	0.0	0.0	0.0	111.2	35.2	192.0
48251	Johnson	1	0.0	0.0	0.0	27.8	8.8	48.0
48253	Jones	2	0.0	0.0	0.0	55.6	17.6	96.0
48257	Kaufman	1	0.0	0.0	0.0	27.8	8.8	48.0
48277	Lamar	2	0.0	0.0	0.0	55.6	17.6	96.0
48281	Lampasas	1	0.0	0.0	0.0	27.8	8.8	48.0
48285	Lavaca	1	0.0	0.0	0.0	27.8	8.8	48.0
48287	Lee	1	0.0	0.0	0.0	27.8	8.8	48.0
48289	Leon	1	0.0	0.0	0.0	27.8	8.8	48.0
48299	Llano	1	0.0	0.0	0.0	27.8	8.8	48.0
48303	Lubbock	4	0.0	0.0	0.0	111.2	35.2	192.0
48307	McCulloch	1	0.0	0.0	0.0	27.8	8.8	48.0
48309	McLennan	3	0.0	0.0	0.0	83.4	26.4	144.0
48347	Nacogdoches	3	0.0	0.0	0.0	83.4	26.4	144.0
48353	Nolan	1	0.0	0.0	0.0	27.8	8.8	48.0
48365	Panola	1	0.0	0.0	0.0	27.8	8.8	48.0
48367	Parker	3	0.0	0.0	0.0	83.4	26.4	144.0
48369	Parmer	1	0.0	0.0	0.0	27.8	8.8	48.0
48371	Pecos	1	0.0	0.0	0.0	27.8	8.8	48.0
48373	Polk	1	0.0	0.0	0.0	27.8	8.8	48.0
48375	Potter	1	0.0	0.0	0.0	27.8	8.8	48.0
48377	Presidio	1	0.0	0.0	0.0	27.8	8.8	48.0
48381	Randall	1	0.0	0.0	0.0	27.8	8.8	48.0
48399	Runnels	2	0.0	0.0	0.0	55.6	17.6	96.0
48411	San Saba	1	0.0	0.0	0.0	27.8	8.8	48.0
48415	Scurry	1	0.0	0.0	0.0	27.8	8.8	48.0
48419	Shelby	2	0.0	0.0	0.0	55.6	17.6	96.0

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48439	Tarrant	3	0.0	0.0	0.0	83.4	26.4	144.0
48441	Taylor	1	0.0	0.0	0.0	27.8	8.8	48.0
48445	Terry	1	0.0	0.0	0.0	27.8	8.8	48.0
48449	Titus	1	0.0	0.0	0.0	27.8	8.8	48.0
48451	Tom Green	4	0.0	0.0	0.0	111.2	35.2	192.0
48453	Travis	1	0.0	0.0	0.0	27.8	8.8	48.0
48459	Upshur	1	0.0	0.0	0.0	27.8	8.8	48.0
48463	Uvalde	1	0.0	0.0	0.0	27.8	8.8	48.0
48467	Van Zandt	1	0.0	0.0	0.0	27.8	8.8	48.0
48493	Wilson	1	0.0	0.0	0.0	27.8	8.8	48.0
48497	Wise	1	0.0	0.0	0.0	27.8	8.8	48.0
48499	Wood	1	0.0	0.0	0.0	27.8	8.8	48.0
	Total	**104**	**0.0**	**0.0**	**0.0**	**2,892.4**	**915.9**	**4,991.5**

Table D-4. 2008 Texas Statewide Emissions, by County: SIC 2051 (Bread, Cake, & Related Products)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48029	Bexar	5	0.0	0.0	0.0	7.9	2.8	15.2
48041	Brazos	1	0.0	0.0	0.0	1.6	0.6	3.0
48061	Cameron	1	0.0	0.0	0.0	1.6	0.6	3.0
48085	Collin	1	0.0	0.0	0.0	1.6	0.6	3.0
48089	Colorado	1	0.0	0.0	0.0	1.6	0.6	3.0
48113	Dallas	14	0.0	0.0	0.0	22.0	7.8	42.6
48121	Denton	4	0.0	0.0	0.0	6.3	2.2	12.2
48141	El Paso	2	0.0	0.0	0.0	3.1	1.1	6.1
48149	Fayette	1	0.0	0.0	0.0	1.6	0.6	3.0
48157	Fort Bend	3	0.0	0.0	0.0	4.7	1.7	9.1
48181	Grayson	1	0.0	0.0	0.0	1.6	0.6	3.0
48191	Hall	1	0.0	0.0	0.0	1.6	0.6	3.0
48201	Harris	27	0.0	0.0	0.0	42.5	15.1	82.2
48209	Hays	4	0.0	0.0	0.0	6.3	2.2	12.2
48213	Henderson	1	0.0	0.0	0.0	1.6	0.6	3.0
48231	Hunt	1	0.0	0.0	0.0	1.6	0.6	3.0
48245	Jefferson	1	0.0	0.0	0.0	1.6	0.6	3.0
48255	Karnes	1	0.0	0.0	0.0	1.6	0.6	3.0
48259	Kendall	1	0.0	0.0	0.0	1.6	0.6	3.0
48273	Kleberg	1	0.0	0.0	0.0	1.6	0.6	3.0
48303	Lubbock	2	0.0	0.0	0.0	3.1	1.1	6.1
48309	McLennan	1	0.0	0.0	0.0	1.6	0.6	3.0
48355	Nueces	4	0.0	0.0	0.0	6.3	2.2	12.2
48375	Potter	1	0.0	0.0	0.0	1.6	0.6	3.0
48381	Randall	2	0.0	0.0	0.0	3.1	1.1	6.1
48423	Smith	1	0.0	0.0	0.0	1.6	0.6	3.0
48439	Tarrant	11	0.0	0.0	0.0	17.3	6.1	33.5
48441	Taylor	1	0.0	0.0	0.0	1.6	0.6	3.0
48453	Travis	2	0.0	0.0	0.0	3.1	1.1	6.1
48479	Webb	1	0.0	0.0	0.0	1.6	0.6	3.0
48491	Williamson	1	0.0	0.0	0.0	1.6	0.6	3.0
48505	Zapata	1	0.0	0.0	0.0	1.6	0.6	3.0
	Total	**100**	**0.0**	**0.0**	**0.0**	**157.2**	**55.9**	**304.5**

Table D-5. 2008 Texas Statewide Emissions, by County: SIC 2421 (Sawmills & Planing Mills, General)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48001	Anderson	1	0.0	0.0	0.0	10.7	5.0	27.3
48005	Angelina	1	0.0	0.0	0.0	10.7	5.0	27.3
48021	Bastrop	2	0.0	0.0	0.0	21.3	9.9	54.7
48029	Bexar	1	0.0	0.0	0.0	10.7	5.0	27.3
48037	Bowie	2	0.0	0.0	0.0	21.3	9.9	54.7
48039	Brazoria	1	0.0	0.0	0.0	10.7	5.0	27.3
48067	Cass	3	0.0	0.0	0.0	32.0	14.9	82.0
48073	Cherokee	1	0.0	0.0	0.0	10.7	5.0	27.3
48113	Dallas	4	0.0	0.0	0.0	42.6	19.8	109.3
48139	Ellis	1	0.0	0.0	0.0	10.7	5.0	27.3
48181	Grayson	1	0.0	0.0	0.0	10.7	5.0	27.3
48183	Gregg	1	0.0	0.0	0.0	10.7	5.0	27.3
48185	Grimes	1	0.0	0.0	0.0	10.7	5.0	27.3
48187	Guadalupe	1	0.0	0.0	0.0	10.7	5.0	27.3
48199	Hardin	3	0.0	0.0	0.0	32.0	14.9	82.0
48201	Harris	8	0.0	0.0	0.0	85.2	39.6	218.6
48225	Houston	2	0.0	0.0	0.0	21.3	9.9	54.7
48265	Kerr	1	0.0	0.0	0.0	10.7	5.0	27.3
48287	Lee	1	0.0	0.0	0.0	10.7	5.0	27.3
48289	Leon	1	0.0	0.0	0.0	10.7	5.0	27.3
48291	Liberty	1	0.0	0.0	0.0	10.7	5.0	27.3
48315	Marion	1	0.0	0.0	0.0	10.7	5.0	27.3
48337	Montague	2	0.0	0.0	0.0	21.3	9.9	54.7
48339	Montgomery	2	0.0	0.0	0.0	21.3	9.9	54.7
48343	Morris	1	0.0	0.0	0.0	10.7	5.0	27.3
48347	Nacogdoches	9	0.0	0.0	0.0	95.9	44.6	246.0
48351	Newton	1	0.0	0.0	0.0	10.7	5.0	27.3
48361	Orange	1	0.0	0.0	0.0	10.7	5.0	27.3
48365	Panola	1	0.0	0.0	0.0	10.7	5.0	27.3
48373	Polk	2	0.0	0.0	0.0	21.3	9.9	54.7
48387	Red River	1	0.0	0.0	0.0	10.7	5.0	27.3
48401	Rusk	1	0.0	0.0	0.0	10.7	5.0	27.3
48403	Sabine	2	0.0	0.0	0.0	21.3	9.9	54.7
48405	San Augustine	1	0.0	0.0	0.0	10.7	5.0	27.3
48407	San Jacinto	1	0.0	0.0	0.0	10.7	5.0	27.3
48419	Shelby	2	0.0	0.0	0.0	21.3	9.9	54.7
48423	Smith	1	0.0	0.0	0.0	10.7	5.0	27.3
48439	Tarrant	2	0.0	0.0	0.0	21.3	9.9	54.7
48449	Titus	1	0.0	0.0	0.0	10.7	5.0	27.3
48453	Travis	3	0.0	0.0	0.0	32.0	14.9	82.0
48455	Trinity	1	0.0	0.0	0.0	10.7	5.0	27.3
48457	Tyler	3	0.0	0.0	0.0	32.0	14.9	82.0
48471	Walker	1	0.0	0.0	0.0	10.7	5.0	27.3
	Total	**78**	**0.0**	**0.0**	**0.0**	**830.8**	**386.3**	**2,131.7**

Table D-6. 2008 Texas Statewide Emissions, by County: SIC 2491 (Wood Preserving)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48005	Angelina	1	0.0	0.0	0.0	31.2	8.1	49.9
48053	Burnet	1	0.0	0.0	0.0	31.2	8.1	49.9
48073	Cherokee	3	0.0	0.0	0.0	93.7	24.4	149.6
48089	Colorado	1	0.0	0.0	0.0	31.2	8.1	49.9
48113	Dallas	2	0.0	0.0	0.0	62.5	16.2	99.7
48199	Hardin	1	0.0	0.0	0.0	31.2	8.1	49.9
48201	Harris	3	0.0	0.0	0.0	93.7	24.4	149.6
48221	Hood	1	0.0	0.0	0.0	31.2	8.1	49.9
48309	McLennan	1	0.0	0.0	0.0	31.2	8.1	49.9
48367	Parker	1	0.0	0.0	0.0	31.2	8.1	49.9
48387	Red River	1	0.0	0.0	0.0	31.2	8.1	49.9
48439	Tarrant	3	0.0	0.0	0.0	93.7	24.4	149.6
48451	Tom Green	1	0.0	0.0	0.0	31.2	8.1	49.9
48453	Travis	1	0.0	0.0	0.0	31.2	8.1	49.9
48471	Walker	1	0.0	0.0	0.0	31.2	8.1	49.9
48499	Wood	1	0.0	0.0	0.0	31.2	8.1	49.9
	Total	**23**	**0.0**	**0.0**	**0.0**	**718.5**	**186.8**	**1,146.9**

Table D-7. 2008 Texas Statewide Emissions, by County: SIC 3354 (Aluminum Extruded Products)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48009	Archer	2	44.3	16.3	88.6	0.0	0.0	0.0
48041	Brazos	1	22.2	8.1	44.3	0.0	0.0	0.0
48061	Cameron	1	22.2	8.1	44.3	0.0	0.0	0.0
48085	Collin	1	22.2	8.1	44.3	0.0	0.0	0.0
48167	Galveston	1	22.2	8.1	44.3	0.0	0.0	0.0
48201	Harris	1	22.2	8.1	44.3	0.0	0.0	0.0
48223	Hopkins	1	22.2	8.1	44.3	0.0	0.0	0.0
	Total	**8**	**177.3**	**65.0**	**354.3**	**0.0**	**0.0**	**0.0**

Table D-8. 2008 Texas Statewide Emissions, by County: SIC 3363 (Aluminum Die Castings)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48027	Bell	1	3.5	1.7	9.5	1.5	0.7	4.1
48085	Collin	1	3.5	1.7	9.5	1.5	0.7	4.1
48113	Dallas	1	3.5	1.7	9.5	1.5	0.7	4.1
48183	Gregg	2	7.0	3.5	19.1	3.0	1.5	8.2
48201	Harris	1	3.5	1.7	9.5	1.5	0.7	4.1
48439	Tarrant	1	3.5	1.7	9.5	1.5	0.7	4.1
48485	Wichita	1	3.5	1.7	9.5	1.5	0.7	4.1
	Total	**8**	**27.9**	**13.9**	**76.4**	**12.0**	**6.0**	**32.9**

Table D-9. 2008 Texas Statewide Emissions, by County: SIC 3365 (Aluminum Foundries)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48005	Angelina	1	0.0	0.0	0.0	17.0	2.4	13.1
48113	Dallas	3	0.0	0.0	0.0	51.0	7.2	39.3
48141	El Paso	1	0.0	0.0	0.0	17.0	2.4	13.1
48181	Grayson	1	0.0	0.0	0.0	17.0	2.4	13.1
48183	Gregg	1	0.0	0.0	0.0	17.0	2.4	13.1
48201	Harris	4	0.0	0.0	0.0	68.0	9.6	52.4
48215	Hidalgo	1	0.0	0.0	0.0	17.0	2.4	13.1
48257	Kaufman	1	0.0	0.0	0.0	17.0	2.4	13.1
48439	Tarrant	7	0.0	0.0	0.0	119.0	16.8	91.7
48485	Wichita	1	0.0	0.0	0.0	17.0	2.4	13.1
	Total	**21**	**0.0**	**0.0**	**0.0**	**356.9**	**50.5**	**275.0**

Table D-10. 2008 Texas Statewide Emissions, by County: SIC 3369 (Nonferrous Foundries, Not Elsewhere Classified)

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48183	Gregg	1	1.7	0.8	4.5	45.3	22.6	123.4
48201	Harris	1	1.7	0.8	4.5	45.3	22.6	123.4
48439	Tarrant	1	1.7	0.8	4.5	45.3	22.6	123.4
	Total	**3**	**5.0**	**2.5**	**13.6**	**135.9**	**67.9**	**370.3**

Table D-11. 2008 Texas Statewide Emissions, by County: SIC 3441 (Fabricated Structural Metal)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48001	Anderson	1	168.2	84.1	466.5	0.6	0.3	1.6
48007	Aransas	1	168.2	84.1	466.5	0.6	0.3	1.6
48015	Austin	2	336.3	168.2	933.1	1.1	0.6	3.1
48021	Bastrop	1	168.2	84.1	466.5	0.6	0.3	1.6
48029	Bexar	25	4,203.9	2,102.0	11,663.2	14.2	7.1	39.3
48037	Bowie	2	336.3	168.2	933.1	1.1	0.6	3.1
48039	Brazoria	2	336.3	168.2	933.1	1.1	0.6	3.1
48049	Brown	2	336.3	168.2	933.1	1.1	0.6	3.1
48061	Cameron	1	168.2	84.1	466.5	0.6	0.3	1.6
48067	Cass	1	168.2	84.1	466.5	0.6	0.3	1.6
48073	Cherokee	1	168.2	84.1	466.5	0.6	0.3	1.6
48085	Collin	5	840.8	420.4	2,332.6	2.8	1.4	7.9
48091	Comal	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48097	Cooke	1	168.2	84.1	466.5	0.6	0.3	1.6
48113	Dallas	21	3,531.3	1,765.6	9,797.1	11.9	6.0	33.0
48121	Denton	7	1,177.1	588.5	3,265.7	4.0	2.0	11.0
48139	Ellis	2	336.3	168.2	933.1	1.1	0.6	3.1
48141	El Paso	1	168.2	84.1	466.5	0.6	0.3	1.6
48157	Fort Bend	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48167	Galveston	6	1,008.9	504.5	2,799.2	3.4	1.7	9.4
48175	Goliad	1	168.2	84.1	466.5	0.6	0.3	1.6
48181	Grayson	2	336.3	168.2	933.1	1.1	0.6	3.1
48183	Gregg	2	336.3	168.2	933.1	1.1	0.6	3.1
48187	Guadalupe	1	168.2	84.1	466.5	0.6	0.3	1.6
48193	Hamilton	2	336.3	168.2	933.1	1.1	0.6	3.1
48199	Hardin	2	336.3	168.2	933.1	1.1	0.6	3.1
48201	Harris	62	10,425.7	5,212.8	28,924.7	35.2	17.6	97.5
48209	Hays	2	336.3	168.2	933.1	1.1	0.6	3.1
48213	Henderson	1	168.2	84.1	466.5	0.6	0.3	1.6
48215	Hidalgo	2	336.3	168.2	933.1	1.1	0.6	3.1
48217	Hill	1	168.2	84.1	466.5	0.6	0.3	1.6
48223	Hopkins	1	168.2	84.1	466.5	0.6	0.3	1.6
48231	Hunt	1	168.2	84.1	466.5	0.6	0.3	1.6
48233	Hutchinson	1	168.2	84.1	466.5	0.6	0.3	1.6
48241	Jasper	1	168.2	84.1	466.5	0.6	0.3	1.6
48245	Jefferson	4	672.6	336.3	1,866.1	2.3	1.1	6.3
48251	Johnson	4	672.6	336.3	1,866.1	2.3	1.1	6.3
48257	Kaufman	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48285	Lavaca	1	168.2	84.1	466.5	0.6	0.3	1.6
48287	Lee	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48289	Leon	1	168.2	84.1	466.5	0.6	0.3	1.6
48291	Liberty	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48299	Llano	1	168.2	84.1	466.5	0.6	0.3	1.6
48303	Lubbock	6	1,008.9	504.5	2,799.2	3.4	1.7	9.4
48309	McLennan	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48321	Matagorda	1	168.2	84.1	466.5	0.6	0.3	1.6
48329	Midland	2	336.3	168.2	933.1	1.1	0.6	3.1
48339	Montgomery	6	1,008.9	504.5	2,799.2	3.4	1.7	9.4
48343	Morris	1	168.2	84.1	466.5	0.6	0.3	1.6
48355	Nueces	1	168.2	84.1	466.5	0.6	0.3	1.6
48361	Orange	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48367	Parker	4	672.6	336.3	1,866.1	2.3	1.1	6.3
48375	Potter	1	168.2	84.1	466.5	0.6	0.3	1.6
48381	Randall	2	336.3	168.2	933.1	1.1	0.6	3.1
48387	Red River	1	168.2	84.1	466.5	0.6	0.3	1.6
48397	Rockwall	2	336.3	168.2	933.1	1.1	0.6	3.1
48401	Rusk	1	168.2	84.1	466.5	0.6	0.3	1.6

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48409	San Patricio	2	336.3	168.2	933.1	1.1	0.6	3.1
48423	Smith	1	168.2	84.1	466.5	0.6	0.3	1.6
48439	Tarrant	22	3,699.4	1,849.7	10,263.6	12.5	6.2	34.6
48441	Taylor	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48451	Tom Green	2	336.3	168.2	933.1	1.1	0.6	3.1
48453	Travis	5	840.8	420.4	2,332.6	2.8	1.4	7.9
48455	Trinity	2	336.3	168.2	933.1	1.1	0.6	3.1
48463	Uvalde	1	168.2	84.1	466.5	0.6	0.3	1.6
48467	Van Zandt	1	168.2	84.1	466.5	0.6	0.3	1.6
48469	Victoria	1	168.2	84.1	466.5	0.6	0.3	1.6
48471	Walker	1	168.2	84.1	466.5	0.6	0.3	1.6
48475	Ward	1	168.2	84.1	466.5	0.6	0.3	1.6
48477	Washington	1	168.2	84.1	466.5	0.6	0.3	1.6
48479	Webb	1	168.2	84.1	466.5	0.6	0.3	1.6
48485	Wichita	2	336.3	168.2	933.1	1.1	0.6	3.1
48491	Williamson	4	672.6	336.3	1,866.1	2.3	1.1	6.3
48493	Wilson	2	336.3	168.2	933.1	1.1	0.6	3.1
48497	Wise	3	504.5	252.2	1,399.6	1.7	0.9	4.7
48499	Wood	1	168.2	84.1	466.5	0.6	0.3	1.6
	Total	**280**	**47,083.7**	**23,541.9**	**130,627.5**	**158.7**	**79.4**	**440.4**

Table D-12. 2008 Texas Statewide Emissions, by County: SIC 3443 (Fabricated Plate Work, Boiler Shops)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48001	Anderson	1	43.4	4.8	24.4	6.7	0.7	3.8
48005	Angelina	1	43.4	4.8	24.4	6.7	0.7	3.8
48009	Archer	1	43.4	4.8	24.4	6.7	0.7	3.8
48021	Bastrop	1	43.4	4.8	24.4	6.7	0.7	3.8
48027	Bell	1	43.4	4.8	24.4	6.7	0.7	3.8
48029	Bexar	1	43.4	4.8	24.4	6.7	0.7	3.8
48031	Blanco	1	43.4	4.8	24.4	6.7	0.7	3.8
48037	Bowie	1	43.4	4.8	24.4	6.7	0.7	3.8
48039	Brazoria	6	260.6	28.7	146.4	40.5	4.5	22.7
48041	Brazos	3	130.3	14.3	73.2	20.2	2.2	11.4
48051	Burleson	1	43.4	4.8	24.4	6.7	0.7	3.8
48053	Burnet	1	43.4	4.8	24.4	6.7	0.7	3.8
48059	Callahan	1	43.4	4.8	24.4	6.7	0.7	3.8
48061	Cameron	2	86.9	9.6	48.8	13.5	1.5	7.6
48089	Colorado	2	86.9	9.6	48.8	13.5	1.5	7.6
48091	Comal	3	130.3	14.3	73.2	20.2	2.2	11.4
48113	Dallas	10	434.3	47.8	244.0	67.5	7.4	37.9
48135	Ector	9	390.9	43.0	219.6	60.7	6.7	34.1
48141	El Paso	7	304.0	33.4	170.8	47.2	5.2	26.5
48157	Fort Bend	4	173.7	19.1	97.6	27.0	3.0	15.2
48167	Galveston	5	217.1	23.9	122.0	33.7	3.7	18.9
48177	Gonzales	1	43.4	4.8	24.4	6.7	0.7	3.8
48179	Gray	1	43.4	4.8	24.4	6.7	0.7	3.8
48183	Gregg	9	390.9	43.0	219.6	60.7	6.7	34.1
48185	Grimes	2	86.9	9.6	48.8	13.5	1.5	7.6
48197	Hardeman	1	43.4	4.8	24.4	6.7	0.7	3.8
48199	Hardin	1	43.4	4.8	24.4	6.7	0.7	3.8
48201	Harris	64	2,779.4	305.7	1,561.3	431.7	47.5	242.5
48203	Harrison	1	43.4	4.8	24.4	6.7	0.7	3.8
48209	Hays	1	43.4	4.8	24.4	6.7	0.7	3.8
48213	Henderson	1	43.4	4.8	24.4	6.7	0.7	3.8
48215	Hidalgo	2	86.9	9.6	48.8	13.5	1.5	7.6
48219	Hockley	1	43.4	4.8	24.4	6.7	0.7	3.8
48223	Hopkins	1	43.4	4.8	24.4	6.7	0.7	3.8
48225	Houston	1	43.4	4.8	24.4	6.7	0.7	3.8
48227	Howard	2	86.9	9.6	48.8	13.5	1.5	7.6
48231	Hunt	1	43.4	4.8	24.4	6.7	0.7	3.8
48233	Hutchinson	1	43.4	4.8	24.4	6.7	0.7	3.8
48241	Jasper	1	43.4	4.8	24.4	6.7	0.7	3.8
48245	Jefferson	6	260.6	28.7	146.4	40.5	4.5	22.7
48251	Johnson	3	130.3	14.3	73.2	20.2	2.2	11.4
48289	Leon	2	86.9	9.6	48.8	13.5	1.5	7.6
48291	Liberty	2	86.9	9.6	48.8	13.5	1.5	7.6
48293	Limestone	1	43.4	4.8	24.4	6.7	0.7	3.8
48299	Llano	1	43.4	4.8	24.4	6.7	0.7	3.8
48303	Lubbock	6	260.6	28.7	146.4	40.5	4.5	22.7
48309	McLennan	3	130.3	14.3	73.2	20.2	2.2	11.4
48321	Matagorda	1	43.4	4.8	24.4	6.7	0.7	3.8
48329	Midland	5	217.1	23.9	122.0	33.7	3.7	18.9
48339	Montgomery	5	217.1	23.9	122.0	33.7	3.7	18.9
48355	Nueces	6	260.6	28.7	146.4	40.5	4.5	22.7
48357	Ochiltree	1	43.4	4.8	24.4	6.7	0.7	3.8
48361	Orange	1	43.4	4.8	24.4	6.7	0.7	3.8
48367	Parker	3	130.3	14.3	73.2	20.2	2.2	11.4
48373	Polk	1	43.4	4.8	24.4	6.7	0.7	3.8
48375	Potter	3	130.3	14.3	73.2	20.2	2.2	11.4
48381	Randall	1	43.4	4.8	24.4	6.7	0.7	3.8

FIPS	County	No. of Facilities	VOC			PM_{10}		
			Maximum (tpy)	Actual (tpy)	OSD (lbs/day)	Maximum (tpy)	Actual (tpy)	OSD (lbs/day)
48401	Rusk	1	43.4	4.8	24.4	6.7	0.7	3.8
48407	San Jacinto	1	43.4	4.8	24.4	6.7	0.7	3.8
48409	San Patricio	1	43.4	4.8	24.4	6.7	0.7	3.8
48415	Scurry	1	43.4	4.8	24.4	6.7	0.7	3.8
48417	Shackelford	1	43.4	4.8	24.4	6.7	0.7	3.8
48423	Smith	2	86.9	9.6	48.8	13.5	1.5	7.6
48439	Tarrant	15	651.4	71.7	365.9	101.2	11.1	56.8
48441	Taylor	2	86.9	9.6	48.8	13.5	1.5	7.6
48451	Tom Green	3	130.3	14.3	73.2	20.2	2.2	11.4
48453	Travis	5	217.1	23.9	122.0	33.7	3.7	18.9
48455	Trinity	1	43.4	4.8	24.4	6.7	0.7	3.8
48457	Tyler	1	43.4	4.8	24.4	6.7	0.7	3.8
48459	Upshur	1	43.4	4.8	24.4	6.7	0.7	3.8
48469	Victoria	1	43.4	4.8	24.4	6.7	0.7	3.8
48471	Walker	1	43.4	4.8	24.4	6.7	0.7	3.8
48479	Webb	1	43.4	4.8	24.4	6.7	0.7	3.8
48485	Wichita	4	173.7	19.1	97.6	27.0	3.0	15.2
48491	Williamson	2	86.9	9.6	48.8	13.5	1.5	7.6
48493	Wilson	1	43.4	4.8	24.4	6.7	0.7	3.8
48497	Wise	2	86.9	9.6	48.8	13.5	1.5	7.6
48505	Zapata	1	43.4	4.8	24.4	6.7	0.7	3.8
	Total	**253**	**10,987.3**	**1,208.6**	**6,172.0**	**1,706.6**	**187.7**	**958.6**

Table D-13. 2008 Texas Statewide Emissions, by County: SIC 3471 (Plating & Polishing)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48029	Bexar	7	74.4	38.2	212.7	42.8	22.0	122.4
48039	Brazoria	2	21.2	10.9	60.8	12.2	6.3	35.0
48043	Brewster	1	10.6	5.5	30.4	6.1	3.1	17.5
48085	Collin	3	31.9	16.4	91.2	18.3	9.4	52.4
48097	Cooke	1	10.6	5.5	30.4	6.1	3.1	17.5
48113	Dallas	24	255.0	130.9	729.4	146.7	75.3	419.5
48121	Denton	1	10.6	5.5	30.4	6.1	3.1	17.5
48135	Ector	2	21.2	10.9	60.8	12.2	6.3	35.0
48141	El Paso	5	53.1	27.3	152.0	30.6	15.7	87.4
48157	Fort Bend	1	10.6	5.5	30.4	6.1	3.1	17.5
48167	Galveston	1	10.6	5.5	30.4	6.1	3.1	17.5
48181	Grayson	3	31.9	16.4	91.2	18.3	9.4	52.4
48187	Guadalupe	1	10.6	5.5	30.4	6.1	3.1	17.5
48201	Harris	32	340.0	174.5	972.5	195.6	100.4	559.3
48203	Harrison	3	31.9	16.4	91.2	18.3	9.4	52.4
48215	Hidalgo	1	10.6	5.5	30.4	6.1	3.1	17.5
48245	Jefferson	1	10.6	5.5	30.4	6.1	3.1	17.5
48251	Johnson	1	10.6	5.5	30.4	6.1	3.1	17.5
48303	Lubbock	2	21.2	10.9	60.8	12.2	6.3	35.0
48309	McLennan	2	21.2	10.9	60.8	12.2	6.3	35.0
48325	Medina	1	10.6	5.5	30.4	6.1	3.1	17.5
48329	Midland	1	10.6	5.5	30.4	6.1	3.1	17.5
48339	Montgomery	2	21.2	10.9	60.8	12.2	6.3	35.0
48349	Navarro	1	10.6	5.5	30.4	6.1	3.1	17.5
48367	Parker	1	10.6	5.5	30.4	6.1	3.1	17.5
48375	Potter	1	10.6	5.5	30.4	6.1	3.1	17.5
48379	Rains	1	10.6	5.5	30.4	6.1	3.1	17.5
48439	Tarrant	13	138.1	70.9	395.1	79.4	40.8	227.2
48441	Taylor	1	10.6	5.5	30.4	6.1	3.1	17.5
48453	Travis	5	53.1	27.3	152.0	30.6	15.7	87.4
48481	Wharton	1	10.6	5.5	30.4	6.1	3.1	17.5
48485	Wichita	1	10.6	5.5	30.4	6.1	3.1	17.5
48491	Williamson	4	42.5	21.8	121.6	24.4	12.5	69.9
48493	Wilson	2	21.2	10.9	60.8	12.2	6.3	35.0
	Total	**129**	**1,370.6**	**703.6**	**3,920.4**	**788.3**	**404.7**	**2,254.9**

Table D-14. 2008 Texas Statewide Emissions, by County: SIC 3479 (Metal Coating & Allied Services)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48001	Anderson	1	5.0	2.6	14.2	2.5	1.3	7.2
48005	Angelina	1	5.0	2.6	14.2	2.5	1.3	7.2
48015	Austin	1	5.0	2.6	14.2	2.5	1.3	7.2
48029	Bexar	5	25.0	13.0	70.8	12.7	6.6	35.9
48037	Bowie	2	10.0	5.2	28.3	5.1	2.6	14.4
48039	Brazoria	1	5.0	2.6	14.2	2.5	1.3	7.2
48041	Brazos	1	5.0	2.6	14.2	2.5	1.3	7.2
48071	Chambers	1	5.0	2.6	14.2	2.5	1.3	7.2
48085	Collin	1	5.0	2.6	14.2	2.5	1.3	7.2
48097	Cooke	1	5.0	2.6	14.2	2.5	1.3	7.2
48113	Dallas	22	109.9	57.2	311.7	55.7	29.0	158.0
48121	Denton	2	10.0	5.2	28.3	5.1	2.6	14.4
48133	Eastland	1	5.0	2.6	14.2	2.5	1.3	7.2
48135	Ector	5	25.0	13.0	70.8	12.7	6.6	35.9
48139	Ellis	2	10.0	5.2	28.3	5.1	2.6	14.4
48143	Erath	3	15.0	7.8	42.5	7.6	4.0	21.5
48157	Fort Bend	7	35.0	18.2	99.2	17.7	9.2	50.3
48167	Galveston	2	10.0	5.2	28.3	5.1	2.6	14.4
48181	Grayson	1	5.0	2.6	14.2	2.5	1.3	7.2
48183	Gregg	1	5.0	2.6	14.2	2.5	1.3	7.2
48199	Hardin	1	5.0	2.6	14.2	2.5	1.3	7.2
48201	Harris	43	214.9	111.7	609.3	108.9	56.6	308.8
48203	Harrison	1	5.0	2.6	14.2	2.5	1.3	7.2
48209	Hays	1	5.0	2.6	14.2	2.5	1.3	7.2
48215	Hidalgo	2	10.0	5.2	28.3	5.1	2.6	14.4
48219	Hockley	1	5.0	2.6	14.2	2.5	1.3	7.2
48233	Hutchinson	1	5.0	2.6	14.2	2.5	1.3	7.2
48245	Jefferson	2	10.0	5.2	28.3	5.1	2.6	14.4
48251	Johnson	3	15.0	7.8	42.5	7.6	4.0	21.5
48293	Limestone	1	5.0	2.6	14.2	2.5	1.3	7.2
48303	Lubbock	1	5.0	2.6	14.2	2.5	1.3	7.2
48309	McLennan	2	10.0	5.2	28.3	5.1	2.6	14.4
48329	Midland	4	20.0	10.4	56.7	10.1	5.3	28.7
48339	Montgomery	2	10.0	5.2	28.3	5.1	2.6	14.4
48355	Nueces	4	20.0	10.4	56.7	10.1	5.3	28.7
48401	Rusk	1	5.0	2.6	14.2	2.5	1.3	7.2
48409	San Patricio	1	5.0	2.6	14.2	2.5	1.3	7.2
48429	Stephens	1	5.0	2.6	14.2	2.5	1.3	7.2
48439	Tarrant	15	75.0	39.0	212.5	38.0	19.8	107.7
48441	Taylor	2	10.0	5.2	28.3	5.1	2.6	14.4
48453	Travis	2	10.0	5.2	28.3	5.1	2.6	14.4
48491	Williamson	1	5.0	2.6	14.2	2.5	1.3	7.2
	Total	**153**	**764.5**	**397.6**	**2,168.0**	**387.4**	**201.5**	**1,098.7**

Table D-15. 2008 Texas Statewide Emissions, by County: SIC 3499 (Fabricated Metal Products, Not Elsewhere Classified)

FIPS	County	No. of Facilities	VOC Maximum (tpy)	VOC Actual (tpy)	VOC OSD (lbs/day)	PM_{10} Maximum (tpy)	PM_{10} Actual (tpy)	PM_{10} OSD (lbs/day)
48005	Angelina	1	11.0	5.3	30.9	1.8	0.9	5.0
48021	Bastrop	1	11.0	5.3	30.9	1.8	0.9	5.0
48029	Bexar	1	11.0	5.3	30.9	1.8	0.9	5.0
48039	Brazoria	6	65.9	31.8	185.6	10.6	5.1	30.0
48041	Brazos	1	11.0	5.3	30.9	1.8	0.9	5.0
48085	Collin	3	32.9	15.9	92.8	5.3	2.6	15.0
48097	Cooke	1	11.0	5.3	30.9	1.8	0.9	5.0
48113	Dallas	12	131.8	63.7	371.1	21.3	10.3	60.0
48121	Denton	3	32.9	15.9	92.8	5.3	2.6	15.0
48135	Ector	5	54.9	26.5	154.6	8.9	4.3	25.0
48139	Ellis	3	32.9	15.9	92.8	5.3	2.6	15.0
48157	Fort Bend	1	11.0	5.3	30.9	1.8	0.9	5.0
48167	Galveston	1	11.0	5.3	30.9	1.8	0.9	5.0
48171	Gillespie	1	11.0	5.3	30.9	1.8	0.9	5.0
48177	Gonzales	1	11.0	5.3	30.9	1.8	0.9	5.0
48181	Grayson	1	11.0	5.3	30.9	1.8	0.9	5.0
48183	Gregg	5	54.9	26.5	154.6	8.9	4.3	25.0
48187	Guadalupe	1	11.0	5.3	30.9	1.8	0.9	5.0
48201	Harris	29	318.4	153.9	896.9	51.5	24.9	145.0
48209	Hays	3	32.9	15.9	92.8	5.3	2.6	15.0
48215	Hidalgo	1	11.0	5.3	30.9	1.8	0.9	5.0
48227	Howard	1	11.0	5.3	30.9	1.8	0.9	5.0
48239	Jackson	1	11.0	5.3	30.9	1.8	0.9	5.0
48241	Jasper	1	11.0	5.3	30.9	1.8	0.9	5.0
48245	Jefferson	2	22.0	10.6	61.9	3.5	1.7	10.0
48251	Johnson	1	11.0	5.3	30.9	1.8	0.9	5.0
48259	Kendall	1	11.0	5.3	30.9	1.8	0.9	5.0
48287	Lee	1	11.0	5.3	30.9	1.8	0.9	5.0
48291	Liberty	1	11.0	5.3	30.9	1.8	0.9	5.0
48299	Llano	1	11.0	5.3	30.9	1.8	0.9	5.0
48303	Lubbock	1	11.0	5.3	30.9	1.8	0.9	5.0
48309	McLennan	5	54.9	26.5	154.6	8.9	4.3	25.0
48321	Matagorda	1	11.0	5.3	30.9	1.8	0.9	5.0
48339	Montgomery	8	87.8	42.5	247.4	14.2	6.9	40.0
48343	Morris	2	22.0	10.6	61.9	3.5	1.7	10.0
48355	Nueces	5	54.9	26.5	154.6	8.9	4.3	25.0
48361	Orange	2	22.0	10.6	61.9	3.5	1.7	10.0
48375	Potter	1	11.0	5.3	30.9	1.8	0.9	5.0
48409	San Patricio	1	11.0	5.3	30.9	1.8	0.9	5.0
48423	Smith	2	22.0	10.6	61.9	3.5	1.7	10.0
48437	Swisher	1	11.0	5.3	30.9	1.8	0.9	5.0
48439	Tarrant	21	230.6	111.4	649.5	37.3	18.0	105.0
48449	Titus	1	11.0	5.3	30.9	1.8	0.9	5.0
48455	Trinity	1	11.0	5.3	30.9	1.8	0.9	5.0
48459	Upshur	1	11.0	5.3	30.9	1.8	0.9	5.0
48467	Van Zandt	2	22.0	10.6	61.9	3.5	1.7	10.0
48469	Victoria	1	11.0	5.3	30.9	1.8	0.9	5.0
48479	Webb	1	11.0	5.3	30.9	1.8	0.9	5.0
48485	Wichita	1	11.0	5.3	30.9	1.8	0.9	5.0
48491	Williamson	1	11.0	5.3	30.9	1.8	0.9	5.0
48499	Wood	2	22.0	10.6	61.9	3.5	1.7	10.0
	Total	**152**	**1,669.0**	**806.7**	**4,701.2**	**269.7**	**130.4**	**759.8**