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Air Quality Division

2008 MICHIGAN AIR EMISSIONS REPORTING SYSTEM (MAERS) INTRODUCTION

Submit Emissions Information by March 16, 2009

SUBMITTAL OF EMISSIONS INFORMATION IS REQUIRED BY STATE LAW
(Article II: Pollution Control, Chapter 1, Point Source Pollution Control,
Part 55 of PA 451 of 1994, the Natural Resource and Environmental Protection Act.
The penalty for non-completion or falsification of MAERS Forms is a misdemeanor.)

UPDATES FOR EI YEAR 2008

- An FTP site is now available as an optional method of submitting your database. See page 7.
- The Saginaw Bay District address has changed. Please see the MAERS cover letter for additional information.
- The NAICS codes must be 6 digits. A completeness check error will indicate if this number is less than 6 digits. These codes are available in the drop down boxes on the S-101 Source form and the EU-101 Emission Unit form.
- Windows Vista has been tested and is now working with the MAERS2008 software. See detailed instructions at www.michigan.gov/deqair. Go to Emissions, Emissions Reporting, MAERS Support Resources or contact the Environmental Assistance Center 800-662-9278.
- The MAERS 2008 CD now contains an updated tutorial that can be viewed at anytime using the Microsoft Windows Media Player. The MAERS tutorial includes several sessions that provide an overview of how to complete and submit a MAERS report. It is intended for those that have completed MAERS reports in the past and need a review. To access the MAERS Tutorial, insert the MAERS 2008 CD into your computer, from the main menu select "Browse CD" then select "MAERS Tutorial".
- MAERS workshops are offered throughout February. You can find more information and register on-line at www.michigan.gov/deqworkshops
- Be sure to check out the MAERS website for additional updates at www.michigan.gov/deqair. Go to "Emissions", then "Emissions Reporting".

As a reminder, sources with Renewable Operating Permits (ROPs) are required to certify their MAERS submittal using the Renewable Operating Permit Report Certification form (EQP 5736), signed by the source's Responsible Official. This is necessary in order to fully comply with the general conditions of the ROP. These sources are still required to complete the MAERS P-101 Signature and Password Form.

The Renewable Operating Permit Report Certification form (EQP 5736) is also available on the internet at www.michigan.gov/deqair. Select Permits; Renewable Operating Permits; ROP Forms & Application Software; Report Certification and Deviation Reporting. Then select "11/2004 Version of ROP Report Certification (EQP 5736)".

Mailing Contents

All sources received the following items:

- ✓ A CD containing the MAERS 2008 software, the MAERS software user's guide, the MAERS tutorial, and the entire MAERS General Instructions booklet. The booklet is broken down into 14 guides: Introduction, General Form Information, Software Installation, and Submittal Instructions, Map and Table I. Each form has its own instructions and examples guide and blank forms. Fact sheets for calculating emissions are included on the MAERS CD or at www.michigan.gov/deqair (go to Emissions, then Emissions Reporting).
- ✓ A "brief" MAERS General Instructions Booklet

Submittal Options

Submittals of the 2008 MAERS information may be made via e-mail, CD/DVD, FTP or by paper copy. Electronic submittal instructions are provided on page 7.

Procedural Clarifications:

- Before loading the 2008 MAERS software, make sure that you have printed a copy of the previous year's summary report, for help in completing the MAERS 2008 emissions data. The Material Throughput amount on the A-101 form and all emission information on the E-101 Emissions form has been removed. The 2007 summary report may help in completing the E-101 Emission forms. Also, for portable sources, the counties and their percentages have been removed. Printing the 2007 summary report from the MAERS 2007 software must be done **before** loading MAERS 2008, as the installation overwrites the previous year's software.
- **The 2008 MAERS software has not been tested on Windows 98 or ME. Running MAERS 2008 on these systems is not supported.** If you are not able to install MAERS 2008 because you have an unsupported system, you can contact your district office (see Table 1) or contact the Environmental Assistance Center at deq-ead-env-assist@michigan.gov or 800-662-9278, to request that source-specific, partially completed, hard-copy forms be e-mailed or mailed to you. You will need to complete these hard-copy forms and mail them back to the appropriate district office for data entry.

Reporting of T-Butyl Acetate

In the November 29, 2004 Federal Register, EPA modified the federal definition of VOC by excluding tertiary butyl acetate (TBAC) from the definition of VOC, because of its negligible level of reactivity with respect to ozone formation.

EPA requires that TBAC remain subject to all federal recordkeeping, emissions reporting, and inventory requirements which apply to VOCs. EPA believes that the use of TBAC as a substitute for other solvents could increase sharply, and that even “negligibly reactive” materials, when used in sufficient quantities, can contribute significantly to ozone formation. Industry will now be required to track and report TBAC emissions as a distinct class of emissions, separate from non-exempt VOCs. The same de minimus and thresholds used for VOCs should be used for TBAC.

At this time, if T-Butyl Acetate is used in any of the activities listed on the A-101 form, it should be reported as a separate pollutant on the Emissions form. In the pollutant code dropdown field choose "Tert-Butyl Acetate" then enter the annual emissions in the annual emissions field.

GENERAL INSTRUCTIONS

Authority:

The annual emission inventory report is required by the administrative rules of the Michigan Department of Environmental Quality (DEQ) under authority of Article II: Pollution Control, Chapter 1, Point Source Pollution Control, Part 55 of PA 451 of 1994, the Natural Resources and Environmental Protection Act. Section 182 (a) (3) (B) of the Clean Air Act requires the development of an emission statement program by each state containing an Ozone Non-Attainment area. Also, a person who knowingly falsifies a report or fails to respond is guilty of a misdemeanor punishable by a fine of not more than \$10,000 per day, and imprisonment for not more than one year, for each violation. Therefore, this provides for certification to the truth and accuracy based on belief, and to administrative completeness of the submittal by the deadline.

Who must file:

Manufacturing, commercial, and institutional establishments are required to file an annual report for each location with source emissions for criteria pollutants as required per Rule 336.202, and as outlined in Operational Memorandum 13. Renewable Operating Permit (ROP) facilities, and those facilities that have opted out of the ROP program, are also required to report. Reporting should be in accordance with these general instructions and any supplemental instructions available for any specific industrial sector.

Reporting Period:

Information is to be provided for calendar year 2008. This will require reporting of actual data for the period January 1, 2008 to December 31, 2008. If records of actual data are not available, estimates based on information and belief formed after reasonable inquiry are acceptable.

Reporting Requirements for Fugitive and Other Non-Stack Emissions:

The requirement to report annual emissions includes fugitive and other non-stack emissions, as well as emissions from releases where the emissions are quantifiable. Some examples of specific instances where fugitive emissions must be reported are as follows:

- a source operates an emission unit with a permit or emission standard which regulates fugitive emissions.
- a source operates a process or process equipment described in an AQD fact sheet which requires calculation of fugitive emissions. Fugitive emissions shall be reported for the emission unit(s) to which the fact sheet applies.
- a source is listed in a specific source category identified as having fugitive emissions under the definition of potential to emit (Rule 116(m)).*
- a source reports fugitive emissions to the Toxic Release Inventory. *

Further information on fugitive emissions may be obtained from the following EPA websites:

<http://www.epa.gov/ttn/chief/ap42> to search by source category and

<http://www.epa.gov/ttnchie1/le> to search by emission type.

To identify processes with fugitive emissions, select a document of interest on these websites. Select “find” while using the term “fugitive” for the specific emission type or source category.

Fugitive, non-stack, and release emissions must be considered when determining if a company is required to report emissions as specified in Operational Memo 13**. These emissions must also be included when determining whether to report emissions from exempt processes or process equipment under Rule 212(7).

Note that AQD may require reporting of a specific air contaminant if such reporting is considered by the department as necessary (and is specifically requested by the department) for the proper management of the air resources (Rule 2).

* For exempt processes referenced in Rule 212(7), reporting is required if the process is subject to a process-specific emission limitation or standard or if the total emissions from the process exceed 10% of the significance levels*** described in the following table.

Reporting Thresholds

Pollutant	**Operational Memorandum 13 thresholds (per facility)	***Rule 212(7) “10% of significant” thresholds (per process), for fee-subject emissions from specified exempt processes
Carbon monoxide	100 tons/year	10 tons/year
Nitrogen oxides	40 tons/year	4 tons/year
Sulfur dioxide	40 tons/year	4 tons/year
PM	25 tons/year	2.5 tons/year
PM-10	15 tons/year	1.5 tons/year
VOCs	10 tons/year	4 tons/year
Lead	0.6 tons/year	0.06 tons/year

BEFORE YOU BEGIN

Before you begin your MAERS report, have all the information needed to fill out the forms available ahead of time. The table below lists some of the items that may be required to complete the MAERS forms.

MAERS CHECK LIST

- MAERS Software - CD ROM (for electronic filing)**
- Computer with Internet access (recommended, but not required, for electronic filing)**
- SRN (State Registration Number) - this is the number that appears on all your permits and correspondence with the AQD**
- Paper copy of last year's submittal**
- 2008 MAERS General Instructions Examples and Reference Tables**
- Calculator**
- Air Use Permits, Consent Orders, or Consent Judgments**
- MSDS, data sheets, specification sheets, etc. for equipment and materials used at facility**
- Year 2008 purchase records**
- Plant layout map**
- List of emission units at facility**
- Any testing or recordkeeping data**
- Material usage logs**
- Other guidance documents (fact sheets, workbooks, etc.)**
- Renewable Operating Permit Report Certification (Form EQP 5736; only sources with a ROP)**

Reporting Options

The Michigan Air Emissions Reporting System (MAERS) is a system that allows emissions inventory information to be submitted electronically or in paper copy format.

A submittal may be prepared using the MAERS software without having access to the internet or having an e-mail provider. A copy of the source database may be requested from the AQD district office, placed on a CD and mailed. This database can then be loaded onto your PC, edited in MAERS and the completed database can be burned onto a CD/DVD and mailed to the district office.

Benefits of Filing MAERS Electronically:

- Database downloading has been automated within the file transfer center, allowing for easier submittal.
- Databases can be submitted via e-mail, attaching the database to an e-mail message. If problems exist in e-mail transfers, an FTP site is now available for posting the database, or a CD/DVD may also be burned and sent to the appropriate DEQ district office.
- Majority of data is prefilled.
- Review of “browse” functions enables an overall view of forms.
- More accurate way to submit data (typographical errors).
- Use of completeness checker improves accuracy and assures that submittal is acceptable.
- Electronic tools to assist sources: calculator, utility reports, etc.
- Paper copies of reports and forms can be printed for future use.
- Faster submittal.
- Notification that the data has been received. **An accurate e-mail address must be entered.**

Electronic Submittals, Installation of Software and Submittal Instructions:

The MAERS 2008 software is distributed and installed via CD-ROM, which may be obtained from the DEQ, Air Quality Division (AQD). Contact any AQD district office for a copy of the CD-ROM. Follow the steps below to install the software.

1. Insert the MAERS 2008 CD into your CD drive.
2. If the “Auto Play” feature on your CD drive is enabled the computer will detect the presence of the CD in the CD drive and start the installation process automatically. Follow the screen prompts once the initial setup screen appears.
If the “Auto Play” feature is not enabled, use Windows Explorer or File Manager to access your CD drive and locate the directory “\SOFTWARE.” Double click the “SETUP.EXE” file to execute the installation software.
3. Follow the setup software instructions to establish your software and database locations on your PC. If during the software installation you choose a location other than the default, be sure to **remember the drive and directory you choose for the database location**. It will be needed later to properly place your database during its download, or move/copy from another location.

DATABASE INSTALLATION INSTRUCTIONS

Before you can begin working on your MAERS report, you have to download your source's database. When the MAERS software is started for the first time it contains only a PRACTICE database; not your source's database. To receive your database, follow the steps below.

Note: You must have access to the Internet to do this. If you do not have Internet access, contact your Air Quality Division district office to obtain a CD with your database on it.

1. Choose **Tasks** on the menu bar and select **File Transfer Center**. Select the option to **Receive database file from AQD** and click on **Next**.
2. A screen will appear that will allow you to download your database in two different ways. The automatic download method is preferred and should be tried first. If the automatic download does not work, select the manual download option. Read the instructions and click on the **Next** button to continue. Depending on which download option you select you will be provided with further instructions.
3. When you are ready to receive your database, fill in the information dialog box, then, click on the **Receive** button. Your database will begin downloading (receiving your database may take up to 20 minutes or longer if you are using a dial-up service). You may cancel the download by clicking on the **Cancel** button.

CONNECTING TO YOUR DATABASE

Once you have received your database, you may connect to it using the **Source Explorer**. Follow the steps below to connect to your database:

1. Choose **Tasks** on the menu bar select **Source Explorer**. For most facilities, only your SRN and the PRACTICE database should appear. The practice database may be used if you would like to practice entering information on the forms; however, the **practice database cannot be submitted to the AQD**.
2. Click on your SRN and your database will open. Once connected to a database, the name of the current database is shown in the title bar. If "PRACTICE" is in the window title, it means that you are in the practice database.

SOFTWARE LOCATION

MAERS software is designed to run from local PC disk drives, not network drives. Although alternate local drives are offered, **it is strongly recommended that you use the default drive and directory locations specified in the software setup**. The default drive is C: and the required subdirectory for the software is "\AQD_APPS\MAERS." This directory is created for you by the setup routine supplied with the MAERS software.

DATABASE LOCATION

The default recommended database location is "C:\AQD_APPS\MAERS\DATABASE." You can specify a different data directory, but using the default will make it easier to resolve problems should they occur.

ELECTRONIC SUBMITTAL INSTRUCTIONS

Submittals may be made by the following options (refer to the MAERS Software Users Guide, File Transfer Center for details):

- **E-Mail Via Internet:** The completed database ("SRN"_2008_SENDTOAQD.SUBMIT) may be sent to DEQ district office assigned to review your submittal by manually initiating your own e-mail account. Attach the completed database located at C:\AQD_APPS\MAERS\DATABASE to the e-mail message, indicating the SRN in the message line. (District e-mail address shown at the bottom of the MAERS printed P-101 Signature and Password form.) Please follow the FTP instructions if submitting via e-mail is unsuccessful.
- **CD/DVD Via US Mail:** Another option is that a CD/DVD may be sent as the submittal. Burn the completed database ("SRN"_2008_SENDTOAQD.SUBMIT) located at C:\AQD_APPS\MAERS\DATABASE onto a CD and mail to the appropriate district office along with the P-101 Signature and Password form. This option is available if your e-mail service has size restrictions for attachments, firewall problems, or if you would like a copy of the MAERS database to be sent to another person (e.g., consultants sending a copy to the source).
- **FTP:** The database may be posted on the AQD FTP site. Prepare the database by going into the FTP option in the file transfer center. Follow the steps to compress the database. Print the screen for directions on how to get to our FTP address and how to post the database. The address is: <ftp://ftp.deq.state.mi.us/maers>, enter the User Name (deq-maers-public-ftp) and Password (Sw3etenings88), and post the database located at C:\AQD_APPS\MAERS\DATABASE, with the database name "SRN"_2008_SENDTOAQD.SUBMIT to the appropriate district folder. An e-mail to the district MAERS mailbox should follow, indicating that the database has been posted. This option should be used if the E-mail database attachment cannot be sent or if you do not have the capabilities of burning the database onto a CD/DVD.

For an electronic submittal to be considered administratively complete, a completed Signature and Password form (P-101), along with any required emission/calculation documentation, must be mailed to the district office listed at the bottom of the P-101 form. Sources with ROPs must include certification that the submittal is true, accurate and complete by including a Renewable Operating Permit Report Certification (Form EQP 5736 located in the back of the booklet), signed by the source's Responsible Official.

Paper Submittals:

A copy of the 2007 MAERS Source Summary Report may be helpful in completing the forms. Requests for this report can be made by contacting the appropriate AQD district office

Paper Forms Assembly Flow:

- Source Forms (S-101 and S-102)
- Stack Forms (SV-101)
- Emission Unit Forms (EU-101)
- Reporting Group Forms - optional (RG-101)
- Activity Forms (A-101)
- Supplemental Portable form (SP-101) **For portable sources only
- Emissions Forms (E-101)
- Operator Forms (O-101)
- Signature and Password Form (P-101)
- ROP Certification (Form EQP 5736) **For ROP sources only

Before submitting, review all forms for completeness and accuracy. **SUBMIT ALL PAPER COPY FORMS TO THE APPROPRIATE AIR QUALITY DIVISION DISTRICT OFFICE LISTED in Figure 1 or Table I.**

Additional forms will be needed to report all required data for paper submittals. Photocopy the original blank forms (located in the back of these instructions) as needed. If additional blank forms are needed, they may be downloaded from the MAERS Homepage at www.michigan.gov/deqair. Go to “Emissions”, “Emissions Reporting”, and then “MAERS Support Resources”. If assistance is needed, contact your Air Quality Division district office by e-mail or phone.

For a paper submittal to be considered administratively complete, a completed Signature and Password form (P-101), along with any required emission/calculation documentation, must be mailed to the district office listed at the bottom of the P-101 form. If not using the software, use Figure 1 or Table I (see to locate the county name in which the source is physically located to determine the appropriate district office. For portable sources operating at locations in multiple districts, submit data to the district office responsible for the county where the S-101 Source form address is located. Portable sources submitting emissions information on paper must submit the SP-101 Supplemental Portable form along with the P-101 Signature and Password form for the submittal to be considered administratively complete. Sources with ROPs must include certification that the submittal is true, accurate and complete by including a Renewable Operating Permit Report Certification (Form EQP 5736 located in the back of this booklet), signed by the source’s Responsible Official.

NOTE: Before completing the forms, please review the detailed instructions for each form available as separate files on the CD.

Related Reference Information: The following reference information is available in the MAERS Software or via the Internet at www.michigan.gov/deqair. Go to “Emissions”, “Emissions Reporting”, and then “MAERS Support Resources”. If unable to get the information from these sources, contact your AQD district office (refer to Figure 1 or Table I) via e-mail or phone. Information may be available in paper form upon request.

Control Device Codes
Emission Calculation Fact Sheets
Horizontal Reference Datum Codes
Horizontal Collection Method Codes
Reference Point Code
MAERS Emission Factors
MAERS Software Users Guide
NAICS Codes
Pollutant/Material Codes
Reference Point Codes
SCC Listing
Fact Sheets

DEQ Environmental Science and Services Division has prepared a MAERS Workbook with examples of how to calculate emissions. You can access the *MAERS Workbook* and the *Calculating Air Emissions for MAERS Guidebook* at www.michigan.gov/deqair (go to "Clean Air Assistance").

DEFINITIONS

AQD SOURCE ID: A system generated ID that the DEQ-AQD uses to identify a stack, an emission unit, or a reporting group.

AQD Source ID (SRN): A source is assigned an AQD Source ID by DEQ-AQD. This number is also called a State Registration Number (SRN).

Criteria Pollutants: Criteria Pollutants are those for which National Ambient Air Quality Standards (NAAQS) are set. The following pollutants must be reported because (1) they are a criteria pollutant or (2) because they result in the formation of a criteria pollutant. The material code is listed in the priority of the most preferable designation and may vary from activity to activity due to available EPA emission factors.

<u>Pollutant</u>	<u>Material Code</u>
Ammonia	AMMONIA
Carbon Monoxide	CO
Lead	LEAD
Oxides of Nitrogen (expressed as NO ₂)	NOX
Nitrogen Dioxide	NO ₂
Particulate Matter less than 10 Microns (Primary)	PM10,PRIMARY
Particulate Matter less than 10 Microns (Total)	PM10,TOTAL
Particulate Matter less than 10 Microns	PM10
Particulate Matter less than 10 Microns (Filterable)	PM10,FLTRBLE
Particulate Matter less than 2.5 Microns (Primary)	PM2.5,PRIMRY
Particulate Matter less than 2.5 Microns (Total)	PM2.5,TOTAL
Particulate Matter less than 2.5 Microns	PM2.5
Particulate Matter less than 2.5 Microns (Filterable)	PM2.5,FLTRBL
Sulfur Dioxide	SO ₂
Oxides of Sulfur (expressed as SO ₂)	SOX
Volatile Organic Compounds	VOC
Non-Methane Organic Compounds *	NMOC
Total Non-Methane Organic Compounds *	TNMOC
Total Organic Compounds *	TOC

* These pollutants can be used as VOC surrogates if a VOC emission factor is not available.

Device: Any process equipment, control equipment, or stack, on or within which, one or more processes can occur or a pollutant is exhausted into ambient air.

Dismantle: To physically remove or render permanently inoperable.

Emission Factor: A factor used to multiply against the material throughput and its unit code to get resultant pollutants emitted.

Emission Unit: An emission unit is a device or group of devices that operate together, with a dependency between devices and emits or has the potential to emit an air contaminant. An emission unit contains at least one process device and may contain control devices and related stacks. Examples of an emission unit would include:

- a single degreaser (degreaser only)
- a topcoat painting line (booths, ovens, incinerator, stacks)
- a chemical manufacturing process (reactors, condensers, dryers, baghouse, stacks)
- a coal fired boiler (boiler, stack, control device)

Emission Unit Activity: The flow of material into and out of processes or between devices that may discharge to the atmosphere. Materials are related to processes by Source Classification Codes (SCCs).

Fee-Subject Facility: As defined in Section 324.5501(k) of Michigan’s Natural Resources and Environmental Protection Act, Act 451 of 1994, as amended, certain sources of air pollutants are required to pay fees. In practice, these include major sources subject to the Renewable Operating Permit program; sources subject to federal New Source Performance Standards; and area sources subject to National Emission Standards for Hazardous Air Pollutants.

Grandfathered: With respect to Michigan permitting requirements, an emission unit installed prior to August 15, 1967 and not subsequently modified or reconstructed, is considered “grandfathered”.

Material: Any product or substance, including elements, compounds, or a mixture thereof, in any physical state (solid, liquid, gas) including more than one physical state at the same time, that flows through a process (fuel, coating, solvent, metal, grain, chemical, product).

Operator: A source representative that is responsible for the emission report’s completeness and accuracy.

Operator’s ID: Identification assigned by a source representative. ID’s will begin with a two-letter prefix plus a combination of up to 14 letters, numbers or keyboard characters. Any combination of letters, numbers and keyboard characters can be used to create ID’s. Spaces are not allowed within the Operator’s ID.

<u>Operator’s ID Prefix</u>	<u>Represents</u>
EU	MAERS Operator’s Emission Unit Prefix
RG	MAERS Operator’s Reporting Group ID Prefix
SV	Operator’s Stack/Vent ID Prefix

- If you have an ROP (Renewable Operating Permit), verify that your MAERS submittal accurately reflects the organization of your current ROP with regard to emission units (EU’s). The naming convention for EU’s in your ROP should be carried over to MAERS. This will make your database more accurate for use in PASS-ROP (the ROP electronic application process) and will simplify this process in the future.

Password: A four to eight alphanumeric character code (upper case) created by the source to verify ownership of the data. Air Quality Division staff will check the password against the P-101 Password and Signature form before accepting the database. The password recorded on the P-101 form must be identical to the password entered in the software.

Portable Source: A facility, process or process equipment that commences operation and is located at a geographic site for not more than twelve consecutive months (e.g., asphalt batch plant). These are not devices that are moved around within a stationary source (e.g., forklifts, welding machines).

Remove from MAERS: An activity can be administratively removed from MAERS reporting requirements if activity/emissions fall below established thresholds, and reporting is not otherwise required.

Reporting Group: An optional grouping of emission units created for simplification of reporting emissions. These emission units should have similar emission limits, stack parameters, operational parameters, emission factors, etc. Examples of reporting groupings include:

- A grouping of several emission units (for example, all of the coating lines or boilers) for an overall emission limit.
- A grouping of several emission units (for example, material handling systems or printing lines) with common activities and emission characteristics.

Rule 201 Exempt: With respect to MAERS, an emission unit is considered “Rule 201 exempt” when it is not grandfathered from Rule 201 permitting requirements; is not included in a permit to install, opt out permit, or Renewable Operating permit; is identified in Rules 280 through 290 of the Michigan Air Pollution Control Rules; and is not excluded from exemption per the provisions of Rule 278.

Rule 208a-Registered Source: A stationary source that has opted out of ROP program requirements by limiting the source’s potential to emit pollutants by following the registration process established by Rule 208a.

Source: A facility or plant that contains (an) emission unit(s). A facility is assigned an AQD Source ID (SRN) and has a physical location.

ACRONYMS

AQD	Air Quality Division	PASS-ROP	Permit Application Submittal System for Renewable Operating Permits
CEM	Continuous Emission Monitor	PM	Particulate Matter
CO	Carbon Monoxide	ROP	Renewable Operating Permit
DEQ	Department of Environmental Quality	R208a	Rule 208a (R 336.1208a)
EPA	Environmental Protection Agency	SCC	Source Classification Code
GPS	Global Positioning System	SIC	Standard Industrial Classification
HAP	Hazardous Air Pollutant	SO2	Sulfur Dioxide
MAERS	Michigan Air Emissions Reporting System	SRN	State Registration Number
NAAQS	National Ambient Air Quality Standards	TNMOC	Total Non-Methane Organic Compounds
NAICS	North American Industrial Classification System	TOC	Total Organic Compounds
NMOC	Non-Methane Organic Compounds	VOC	Volatile Organic Compounds
NOX	Oxides of Nitrogen		