



# ***COMPREHENSIVE EMISSION INVENTORY GUIDELINES***

**ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT**

2551 W AVENUE H  
LANCASTER, CA 93536  
(661) 723-8070 • [www.avaqmd.ca.gov](http://www.avaqmd.ca.gov)

## What's New for the 2025 Emission Data Year Submissions

The California Air Resources Board (CARB) is requiring more information than in previous emission years. The increased requirements are due to the CARB utilizing the CEI data to satisfy the requirements of multiple CARB programs including:

- The AB 2588 Air Toxics "Hot Spots" Emission Inventory Criteria and Guidelines Regulation (Hot Spots/ECIG)
- Regulation for Reporting Criteria Air Pollutants and Toxic Air Contaminants (CTR)
- Air Emissions Reporting Requirements (AERR, implemented by USEPA)

In efforts to meet these requirements, the District will be requiring facilities to submit reports which include more detailed information than has been approved/accepted in the past. Failure to adhere to these requirements will result in a disapproval of the CEI submission and potential enforcement action.

### Requirements Beginning EY25

- Facilities required to submit a HARP2 .tra file are required to update to the most recent software version of the HARP2 program available on the date that the inventory is submitted to the District. CARB performs updates throughout the year which results in changes to fields/available options within the program. It is necessary that facility's submitting their own HARP2 .tra are working in the most current software version of the HARP2 program. The HARP2 software can be download from the CARB's website here: <https://ww2.arb.ca.gov/our-work/programs/hot-spots-analysis-reporting-program>
- Facilities submitting .tra files to the District are **required** to install and run the validation tool prior to submitting the file to the District: <https://ww2.arb.ca.gov/resources/documents/harp-emission-inventory-module>

### Changes to HARP2 Emission Inventory Module (EIM) Software:

- Import capabilities available in previous versions of the software have been modified. Facilities using Excel to import data into the HARP2 EIM will be required to modify their import files/templates. A sample import Excel spreadsheet can be found here: <https://ww2.arb.ca.gov/resources/documents/harp-emission-inventory-module>
- CARB is requiring that most fields within the HARP2 EIM are filled in, this is a change from the requirements for previous submissions. Facilities submitting forms for the District to construct the HARP2 file will also be required to submit more detailed information. Please see Part V, Section G, starting on page 17 of this guidance for a list of required fields.

**Other Important Reminders:**

- Portable equipment operated at stationary sources: Emissions from portable/various location equipment are **required** to be included in the emissions inventory for the permitted facility at which work is being performed. If the equipment operates at a facility not required to have district permits or one that operates under a different SIC code and the processed material is not being fed into that facility's process stream then the emissions shall be reported in an emission inventory for the facility that owns/operates the portable equipment.
- Coating Operations and Safety Data Sheets: Coating operations including but not limited to autobody shops are **required** to submit the SDS for all solvents and coatings used in addition to the total amount of each used during the year being reported. This requirement also applies to all catalysts, hardeners, and other coating components that make up the coating, as applied.

## **I. PURPOSE**

This guideline establishes a uniform method for preparing and submitting a Comprehensive Emission Inventory Report (CEIR) for all existing, new, or modified stationary sources of air pollution within the Antelope Valley Air Quality Management District (District). The CEIR, which are prepared pursuant to these guidelines, should be able to satisfy all of the Federal, State, and District requirements for criteria and toxics air emission inventories from stationary sources.

For assistance with at any time with the Comprehensive Emission Inventory program, please contact your District facility engineer or the engineering department at [engineering@avaqmd.ca.gov](mailto:engineering@avaqmd.ca.gov) or 661-723-8070.

## **II. FEDERAL AND STATE REQUIREMENTS**

Several sections of the Federal Clean Air Act (FCAA) require the maintenance and use of emission inventory data for a variety of purposes. To improve and simplify emission reporting the USEPA has established requirements for the reporting of point, area and mobile sources emissions which is found in the Consolidated Emissions Reporting Rule, 40 CFR 51, Subpart A (67 FR 39611, 6/10/2002).

The California Clean Air Act (CCAA) (Health & Safety Code §§39000 et seq.) requires the collection and maintenance of several different emissions inventories, including a criteria emission inventory (Health & Safety Code §39607) and a toxic emission inventory (Health & Safety Code §44340). In addition, specific sources of air pollutants are required to submit a Toxic Emission Inventory Plan (TEIP) and Toxic Emission Inventory Report (TEIR) (Health & Safety Code §§44341 - 44342).

Additionally, the state's Mandatory GHG Reporting Program, consistent with the calculation methodologies in the Intergovernmental Panel on Climate Change currently govern the inventory of greenhouse gas (GHG) emissions under the Mandatory Reporting Regulation (Title 17 CCR 95100-95158).

Regulation for Reporting Criteria Air Pollutants and Toxic Air Contaminants (CTR):

CARB developed the "Regulation for the Reporting of Criteria Air Pollutants and Toxic Air Contaminants" (or CTR) to implement statewide annual reporting of criteria air pollutant and toxic air contaminant emissions data from facilities. This reporting regulation became effective January 1, 2020, with an amendment effective January 1, 2022. A facility is subject to the emissions reporting requirements of CTR if they meet the applicability criteria in items 1-4, below (item 4(c) commences reporting with the 2024 Emission Year).

- 1) The facility is required to report greenhouse gas (GHG) emissions to the California Air Resources Board (CARB), for the data year, pursuant to Health & Safety Code, Section 38530; or,
- 2) The facility has the potential to emit more than 250 tons per year, during the data year, of nitrogen oxides, volatile organic compounds, particulate matter, sulfur oxides, ammonia or lead; or,

- 3) The facility is categorized by the District as a high priority (Prioritization Score greater than or equal to 10) for toxic air contaminants at the beginning of the data year; or,
- 4) The facility's actual emissions exceeds any of the following thresholds;
  - a) a potential to emit 10 tpy of any criteria pollutant (except for CO), or,
  - b) a potential to emit 100 tpy CO, or
  - c) is engaged in a process permitted by the District that has an activity level meeting or exceeding the CTR reporting threshold. Reporting is phased in dependent on activity. Starting with emission year 2024, sectors 1 through 16 of the CTR are required to report.

Facilities must report all emissions and data parameters as specified in the CTR Regulation under 17 CCR 93404 (e.g. NAICS codes, latitude/longitude, device and process information, etc.)

For facilities subject to items 4(c) above, initial reporting is carried out in phases, commencing with emission year 2024 for Phase I sectors (sectors 1-16). Please refer to Appendix A, Table A-3 of the CTR Regulation linked below for identification of Sector Phase I Activity Reporting Levels required for reporting in emission year 2024.

#### Additional Substances:

Reporting commences with emission year 2024 for substances listed in Table B-2 and emission year 2028 for substances listed in Table B-3 and B-4. The substances listed in CTR Regulation Table B-2, Table B-3, and Table B-4 must be reported in addition to those substances identified in Appendix A-I of the Emission Inventory Criteria and Guidelines for the Air Toxics "Hot Spots" Program, version effective September 26, 2007, as issued by CARB.

Cessation of Reporting [17 CCR 93401(c)]: Any facility no longer meeting the applicability criteria in items 1-4 above may cease reporting predicated on the facility submitting detailed written request notification (93401(c)) to the District and CARB prior to February 28th, of the year in which the emissions report is due.

Please refer to the Final CTR Regulation Order for full requirement details:

[https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR\\_Jan2022\\_0.pdf](https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR_Jan2022_0.pdf)

#### AB 2588 Air Toxics "Hot Spots" Emission Inventory Criteria and Guidelines Regulation (EICG)

The California Air Resources Board (CARB) adopted amendments to the existing EICG at the November 19, 2020 Board meeting. Following the adoption, the Board directed CARB staff to consider further modifications to the EICG. These modifications were approved and became effective March 21, 2022.

Amendments to the EICG focus on updating the following areas of the air toxics emission inventory:

1. More than 900 new substances and 3 broad functional groups (compounds associated with having greater adverse health effects) are now required to be reported
2. Update screening approaches for diesel engines and other modeling (i.e. AERMOD)
3. Improved accuracy of emission factors by requiring additional source testing for certain sectors
4. Better harmonization between CTR and EICG reporting requirements
5. Use of Best Available Data and Methods (93401(d) including reporting of throughput when emission quantification method is not available

Please refer to the Final EICG Guidelines to ensure all reportable compounds are included in the CEIR: <https://ww2.arb.ca.gov/resources/documents/emission-inventory-criteria-and-guidelines-regulation-documents>

Facilities are required to report criteria and toxic emissions data directly to the District, using these Guidelines. Certain facilities are also required to report GHG emissions data directly to CARB.

### **III. APPLICABILITY**

All existing stationary sources of air pollutants are required to periodically prepare and submit a CEIR on a schedule prescribed by the District. All proposed new stationary sources of air pollutants are required to submit a CEIR for the proposed new emission unit(s) in conjunction with their application for permit(s) pursuant to the provisions of the District's Permit and New Source Review Rules and Regulations. Existing stationary facilities or sources of air pollutants are required to submit a CEIR for proposed new emission unit(s) and update their current CEIR for modifications to existing emission unit(s) pursuant to the provisions of the District's Permit and New Source Review Rules and Regulations.

### **IV. DEFINITIONS**

For purposes of these Guidelines, the definitions contained in District Rules 102, 1301, and 1402 and apply unless otherwise defined herein.

Existing Stationary Source - Any Facility or Emissions Unit which:

- (a) Is required to have a Permit to Operate (PTO) pursuant to the provisions of District Rules and Regulations
- (b) Is an Emissions Unit or process type which is listed in Appendix "E" of *Emission Inventory Criteria and Guidelines for the Air Toxics 'Hot spots' Program* as adopted by reference in 17 California Code of Regulations §93300.5 [<https://ww2.arb.ca.gov/sites/default/files/2022-10/Appendix%20E.pdf>]
- (c) Is subject to an Airborne Toxic Control Measure (ATCM)
- (d) Is subject to a New Source Performance Standard (NSPS) [See 42 U.S.C. §7411 & 40 CFR 60]
- (e) Is subject to a National Emission Standard for Hazardous Air Pollutant (NESHAP) Standard [See 42 U.S.C. §7412 & 40 CFR 61]
- (f) Is subject to a Maximum Achievable Control Technology (MACT) Standard [See 42 U.S.C. §7412 & 40 CFR 63]

### **V. PROCEDURE**

#### **A. General Requirements**

The Comprehensive Emission Inventory (CEI) includes the release of all substances (criteria pollutants, their precursors, and state & federal toxic substances) emitted into the ambient air.

The emissions included in this inventory are typically from stationary emitting devices required to have District permits located at a regulated facility. Emitting devices that are exempt from permit may also be included in the inventory (included as fugitive emissions).

The CEIR are to include all permitted sources (equipment) and permitted source fugitive emissions. Other fugitive emissions may be included at the reporting facility's discretion. A facility that belongs to one of the twenty-seven (27) categories listed in 40 CFR 51.165(a)(1)(iv)(C) must include all fugitives associated with the facility. Note that air pollution control devices that are attached to another permitted source are not included as a separate reporting device (each is inherently included with the permitted device each serves).

Existing sources, that emit a total of ten (10) tons per year or more of any criteria pollutant or their precursors, are required to prepare and submit a CEIR, annually for criteria pollutant emissions, and for toxic substances.

Unless otherwise required to report annually by the CTR, existing sources that emit a total of less than ten (10) tons per year of any criteria pollutant or their precursors are required to prepare and submit a CEIR every three (3) years. Facilities required to report must include both criteria pollutant emissions and toxics substances. Please refer to the Submission Cycles section to view the applicable submission year cycle.

#### *On-Site Mobile Sources:*

(1) Motor Vehicles: For facilities emitting more than 10 tons per year of any criteria pollutant, the facility operator shall include in the CEIR the particulate emissions produced from routine and predictable motor vehicle activity at the facility.

Tail pipe emissions and other emissions emanating directly from the motor vehicles are not included in the facility's CEIR.

Section 415 of the Vehicle Code defines a "motor vehicle" as a vehicle which is self-propelled; "vehicle", in turn, is defined in Section 670 of the Vehicle Code as a device by which any person or property may be propelled, moved, or drawn upon a highway, excepting a device moved exclusively by human power or used exclusively upon stationary rails or tracks. Some examples of motor vehicles are automobiles, trucks, buses, road graders, earth movers, tractors, golf carts, motorcycles, self-propelled harvesters, forklifts, and sweepers.

(2) Other (Non-Motor Vehicle) Mobile Sources: For non-motor vehicle mobile sources (those not meeting the definition of motor vehicles) which operate within the facility, the following inventory information is required to be included in the facility's CEIR. For non-motor vehicle mobile sources which stay within the facility property, the facility may include reporting of all emissions from such non-motor vehicle mobile sources. In addition, the district may require the facility to report activity data regarding the usage of non-motor vehicle mobile sources that are periodically located within the facility property. Examples of Non-Motor Vehicles include locomotives, airplanes, refrigeration units, auxiliary generators, welding machines, ships, and cranes.

#### *PERP/Contracted Portable Equipment Emissions Subject to Reporting:*

Emissions from equipment solely registered in the State Portable Equipment Registration Program (PERP) are not currently reported to the District; however, PERP equipment that has a concurrent District Permit at a facility must be included in the inventory.

Third-party owned, portable, pieces of equipment, such as a batch plant, or generator that is operated at another permitted facility in which the portable piece of equipment belongs to the same industrial grouping, either by virtue of falling under the same two-digit Standard Industrial Classification (SIC) code, or by being part of a common industrial process, manufacturing process, or connected process involving a common raw material must report the emissions of the portable piece of equipment in the inventory of the facility(ies) for which it operated during the subsequent emission year.

*Reporting of Diesel Particulate Matter (DPM):*

Emissions of Diesel Particulate Matter (DPM) should be reported as one pollutant only using the Pollutant ID 9901 for Diesel Exhaust PM. Do not report DPM as its individual components, i.e. formaldehyde, acrolein, mercury, nickel, etc. as this over estimates emissions.

*Reporting Condensable PM<sub>2.5</sub>:*

It is now required to report condensable PM<sub>2.5</sub> per the *Fine Particulate Matter National Ambient Air Quality Standards: State Implementation Plan Requirement of 2016* under the Air Emission Reporting Rule (AERR).

<https://www.gpo.gov/fdsys/pkg/FR-2016-08-24/pdf/2016-18768.pdf>

*Ammonia and Lead:*

When reporting these pollutants as toxic substances, please report ammonia (NH<sub>3</sub>) and lead (Pb) emissions using both criteria and toxic pollutant codes. The criteria pollutant codes for ammonia (NH<sub>3</sub>) and lead (Pb) are 42604 and 12128; whereas the toxic pollutant codes for ammonia (NH<sub>3</sub>) and lead (Pb) emissions are 7664417 and 7439921, respectively. Note that the applicable degree of accuracy for these pollutants, as described by CARB in the EICG guidelines, is 200 pounds per year ammonia and 0.5 pounds per year lead; meaning that when a facility emits pollutant at or over these thresholds the facility must report these emissions.

*Best Practices for Estimating Emissions:*

When calculating emissions, the most representative data for emissions generated from the source must be used. The source of all emission factors must be clearly stated within the CEIR. Sources must be defensible, and the following hierarchy, as recommended by EPA, should be adhered to:

1. Continuous Emissions Monitoring (CEM) data, as collected from the source;
2. Current stack testing data from the source:
  - a. In the absence of CEM data, the most current performance test results are the District's second preference for emissions data. The source test report must be included with the CEIR submission—references to source testing without the complete source test report are unacceptable and may be subject to rejection.
3. Vendor emissions guarantee:
  - a. Equipment-specific manufacturer emission guarantees are the third most preferable option in the hierarchy. Guarantees must be relative to the same model/rating of equipment and data must be specific and quantifiable.
4. Continuous Emissions Monitoring (CEM) data from a similar source or group of sources:

- a. CEM data from a similar source or group of sources may be acceptable when accompanied by a justification of the use of the data (i.e. similar operational function, similar raw material throughput, similar process rates, identical air pollution controls). The District reserves the right to reject data from similar sources lacking sufficient justification.
5. Material Balance:
  - a. Material balance calculations may be acceptable, provided the material inputs and outputs can be accurately characterized and quantified. Any use of capture/control/transfer efficiencies must be accompanied by a citation of the source and an explanation as to why this is applicable to the source.
6. Optical Remote Sensing:
  - a. Data obtained using measurement techniques such as differential absorption light detection and ranging (DIAL) and solar occultation flux (SOF) may be used for sources that are otherwise difficult to measure, including coke ovens, storage tanks, and wastewater treatment plants. The use of optical remote sensing data must be accompanied with sufficient information necessary to validate the data quality.
7. AP-42, California Air District Emission Factors (CATEF) and Industry-Derived Emission Factors:
  - a. AP-42, emission factors from California Air Districts and industry-derived emission factors should only be used when there is an absence of the emissions data listed above. AP-42 and California Air District emission factors must be cited within the CEIR. If industry-derived emission factors are used, they must be accompanied with documentation stating how the emission factors were derived and any air agency approvals of the emission factors. The District reserves the right to reject industry-derived emission factors lacking sufficient justification.

Alternative methodologies may be considered when accompanied with justification of the proposal, but are subject to District approval. Proposals lacking sufficient substantiation of the alternative methodology will not be approved.

*Please note: References to previous District approvals, historical CEIR submissions, or emails without accompanying documentation of both the approval and the accompanying justification of the proposed calculation methodology are not considered acceptable sources of emission estimation and may result in immediate rejection of the submission. Failure to submit an approvable CEIR may result in enforcement action.*

## B. Criteria Pollutants

Criteria pollutants are those that are regulated by air quality standards that were set using health-based criteria. The following table includes criteria pollutants and their associated pollutant codes, and indication as to if they need be included in the CEIR. Criteria pollutant emissions including ammonia (NH<sub>3</sub>) and lead (Pb) with 42604 and 12128 pollutant codes should be reported in tons per year. Emissions of ammonia (NH<sub>3</sub>) and lead (Pb) with 7664417 and 7439921 pollutant codes should be reported in pounds per year as toxic pollutants.

Table 1- Criteria Pollutants

Pollutant Code	Pollutant Name	Abbreviated Name	Report to District
42101	Carbon Monoxide	CO	Yes
42603	Oxides of Nitrogen	NO <sub>x</sub>	Yes
42401	Oxides of Sulfur	SO <sub>x</sub>	Yes
11101	*Particulate Matter	PM	Yes
85101	*Particulate Matter 10 Microns or Less	PM <sub>10</sub>	Yes
88101	*Particulate Matter 2.5 Microns or Less	PM <sub>2.5</sub>	Yes
16113	*Reactive Organic Gases	ROG	Yes
43101	*Total Organic Gases	TOG	Yes
43104	*Volatile Organic Compounds	VOC	Yes
42604 & 7664417	Ammonia	NH <sub>3</sub>	Yes
12128 & 7439921	Lead	Pb	Yes
NA	GHG	CO <sub>2</sub>	No
NA	Other PSD Pollutants		No

**\*Important Note:** Please report either all three forms of PM (PM, PM<sub>10</sub>, and PM<sub>2.5</sub>) or one of the three. The same applies to the organic gases, please report either all three forms of organic gases (TOG, ROG and VOC) or one of the three. **DO NOT** report two out of three forms for PM and organic gases.

## C. Toxic Pollutants

Toxic air contaminants are those pollutants that are known to, or suspected to, cause cancer or other adverse health conditions even at extremely low levels, and some may accumulate in the body from repeated or chronic exposure. The toxic pollutants/substances which are to be included in the CEIR are listed in the following referenced documents. Emissions of toxic substances must be reported in pounds per year:

- (a) Appendix A, *Emission Inventory Criteria and Guidelines for the Air Toxics 'Hot Spots' Program* (CARB); consisting of;

1. Appendix A-I Substances for which emissions must be quantified  
<https://ww2.arb.ca.gov/sites/default/files/2022-10/A-I.pdf>
  2. Appendix A-II Substances for which production, use or otherwise present must be reported  
<https://ww2.arb.ca.gov/sites/default/files/2022-10/A-II.pdf>
  3. Appendix A-III Substances for which emissions must be quantified if manufactured by the facility  
<https://ww2.arb.ca.gov/sites/default/files/2022-10/A-III.pdf>
- (b) 42 U.S.C. §7412(b) “List of Pollutants (Federal Clean Air Act §112(b) “List of Pollutants”).
- (c) Appendix B, *Regulation for the Reporting of Criteria Air Pollutants and Toxic Air Contaminants (CTR)*; consisting of;
1. Commencing with Emission Year 2024, Table B-2, *Additional Substances Subject to Initial Quantification and Reporting*  
[https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR\\_Jan2022\\_0.pdf](https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR_Jan2022_0.pdf)
  2. Commencing with Emission Year 2028, Table B-3, *Additional Substances Subject to Initial Quantification and Reporting*  
[https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR\\_Jan2022\\_0.pdf](https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR_Jan2022_0.pdf)
  3. Commencing with Emission Year 2028, Table B-4, *Additional Substances Subject to Initial Quantification and Reporting*  
[https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR\\_Jan2022\\_0.pdf](https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR_Jan2022_0.pdf)

Copies of these lists are available at the CARB link below, and/or USEPA websites (See “References”) or upon request from the District:

- <https://ww2.arb.ca.gov/our-work/programs/ab-2588-air-toxics-hot-spots/hot-spots-inventory-guidelines>
- [https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR\\_Jan2022\\_0.pdf](https://ww2.arb.ca.gov/sites/default/files/2022-02/Unofficial%20CTR_Jan2022_0.pdf)

Please note that once the toxic emissions are quantified and approved, the District is required to prioritize and categorize the risk associated with the emission source(s) (the facility) to determine if a health risk assessment is warranted, known as Emission Unit Prioritization Scoring. Prioritization scores are calculated for carcinogenic effects, non-carcinogenic acute effects, and non-carcinogenic chronic effects. Prioritization scores are calculated utilizing the most recently approved CAPCOA Facility Prioritization Guidelines; the most recently approved OEHHA Unit Risk Factor for cancer

potency factors; and the most recently approved OEHHA Reference Exposure Levels for non-cancer acute factors, and non-cancer chronic factors.

The District's Emission Unit Prioritization Scoring procedure for risk assessment takes into consideration potency, toxicity, quantity of emissions and proximity of the facility to potential receptors. This procedure categorizes the facility's risk as a high, intermediate or low priority. Facilities categorized as "high" are subject to health risk assessment (HRA) requirements. Facilities categorized as "intermediate" may be subject to HRA requirements pursuant to the criteria specified in Rule 1520(E)(2). Facilities categorized as "low" are not subject to HRA requirements. The District may adjust the prioritization scores using additional factors such as release parameters, receptor type, meteorological conditions, etc. to obtain an accurate assessment of the facility.

Facilities required to submit an HRA must adhere to the CARB/CAPCOA's Risk Management Guidance for Stationary Sources of Air Toxics and the updated health risk assessment methodology defined by OEHHA in 2015. These documents can be found at the following links:

- CARB/CAPCOA's: Risk Management Guidance for Stationary Sources of Air Toxics: <https://www.arb.ca.gov/toxics/rma/rmgssat.pdf>
- OEHHA's Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments: <https://oehha.ca.gov/air/crnrr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0>

## **F. Preparing the Comprehensive Emission Inventory Report (CEIR)**

The CEIR shall be prepared in accordance with the procedures found in the following:

- (a) *USEPA's Procedures for Emission Inventory Preparation Volume I – Emission Inventory Fundamentals (EPA-450/4-81-026a)*; and,
- (b) *CARB's Emission Inventory Criteria and Guidelines for the Air Toxics 'Hot Spots' Program.*

District forms "Certification - CER", "Location of Emission Sources - LOC-ES", and "Release Data - REL" must be included with each CEIR submittal. For facilities with more than five permitted units, the CEIR submission must be submitted to the District in either HARP2 transaction file format or HARP2 compatible access database. Copies of the above referenced documents and the HARP2 program may be obtained at the CARB website (See "References") or from the District upon request. All supporting digital workbooks (i.e. spreadsheets) must accompany each submittal, and all SDS sheets for materials for which emission rates are based must be available and presented to District upon request.

## G. HARP2 Requirements

### Facility Data

- Please use the required new facility naming convention, i.e. the facility number only.
  - Example: Below is a picture of a District Permit and the statements below demonstrate the proper naming conventions.



**ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT**  
2551 West Avenue H, Suite 102, CA 93536

**RENEWAL**

G014147

Renewal type Permit has no description information.

**EXPIRES LAST DAY OF: JANUARY 2023**

**OWNER OR OPERATOR (Co. #143)**

7-Eleven, Inc  
3200 Hackberry Road  
Irving, TX 75063

**EQUIPMENT LOCATION (Fac. #4077)**

7-Eleven Facility #38878  
1859 West Avenue J  
Lancaster, CA 93534

**Descriptions:**

GASOLINE DISPENSING FACILITY consisting of: Equipped with an OPW Phase I Vapor Recovery System and Phase II balance system with a Veeder Root Vapor Polisher and Veeder Root In-Station Diagnostics (ISD) and having two OPW PV valves.

**FUEL TANKS**

Fee Schedule: J ()

Rating: 24 nozzles

NAICS: 447110

SCC: 40600603

Location/Coordinates:  
+34.67535, -118.13052

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Daves Investment Inc  
6906 Granada Drive  
Palmdale, CA 93551

By: **COPY**  
**Barbara Lods**  
Air Pollution Control Officer

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Permit: G007067

Issue Date: 10/17/2025

- Facility Name (FNAME) = Equipment Location
- Equipment Location = Daily Transit Mix, LLC
- Facility ID (FACID) = Facility (Fac.) #
- Facility (Fac.) # = Equipment Location = 1294
- Facility ID (FACID) = 1294
- Coordinate System Type = “Lat and Long (decimal degrees)”
- Datum = “WGS84 – World Geodetic System 1984”
- Zone = “11”
- Valid/current NAICS and SCC
- Accurate Latitude and Longitude

### *Release Data*

- Provide conventional name(s) for release(s), i.e.
  - Release ID (STK) = Last 5 digits of Permit # = 11715
  - Release Name = a name that matches the district permit, or if a fugitive source, one that is obvious to District staff.
  - Pick “Release Type”:
    - Point (Stack)
    - Volume
    - Area
    - Open Pit
  - Enter all known or obtainable data. At a minimum enter Release Location (Geographical Location, i.e. Latitude and Longitude. This is needed for risk assessment purposes. It is strongly recommended that you use the exact location of the release point, but the Release Location can be set to the facility coordinates (origin) where the release point location is representative of the facility origin if an emission unit specific Lat/Long is not possible.

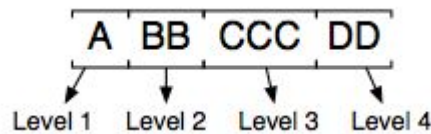
### *Device Data*

- Device ID (DEV) – Last 5 digits of District Permit # = 11715
  - For fugitive sources use 90000 for the Device ID (DEV), with multiple fugitive sources following as 90001, 90002, etc.
- For the Device Name (DEVNM) use the name of the facility’s choice or enter Permit Description, i.e. DEVNM = Concrete Batch Plant

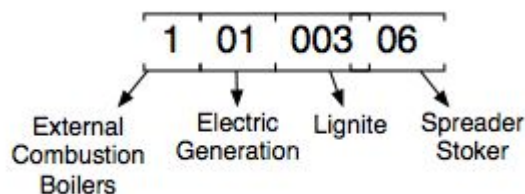
- For fugitive sources enter “FUGITIVE” as the Device Name (DEVNM).
- Include Local Permit ID (PERID), i.e. PERID = B011715
  - If multiple Permit IDs are inventoried under one local Permit, add note in the comment field as to which other Permit IDs are included.
- Enter number of Devices (NUMDEV)
- Using the lookup tool, enter the “Type Code” (EQTYPEC) that best matches this device equipment.
- **Important note:** Please ensure there are no devices without any process associated with them (referred to as orphan devices). All orphan devices will be deleted.

### Process Data

- Process ID (PROID) – Enter up to a 2-digit number, starting a 1 and up to 99.
- Process Description (PRDESC) – Should be a conventional name for that process that delineates it from the other uses of that equipment, i.e. gelcoat line, natural gas, batch plant, etc.
- Enter “SIC”
- Enter “SCC”
  - Update Source Classification Code (SCC) if it is not listed, or filled in with all “9”s.
    - District, State, and Federal emission inventory programs use SCCs to classify different types of anthropogenic emission activities. SCCs have 8 digits for point sources. Historically, the District allowed the use of an SCC with all 9’s, i.e. “99999999” to classify a process that did not specifically fit into Levels 1 through 4; however, this practice is no longer accepted as the Districts reporting program (HARP2/CEIDARS) will no longer accept the all “9”s as a valid SCC, so please update accordingly.
    - The code structure for the 8-digit point-source codes is:



- An example point-source activity and corresponding SCC is given below: “External Combustion Boilers; Electric Generation; Lignite; Spreader Stoker” is represented by 10100306. Below we have mapped the levels of this description with the levels of the SCC:



- Ensure that a valid SCC is being used in HARP2. Enter a valid NAICS or use the “SIC to NAICS” button.
- Enter Process Rate
  - If process rate units are not same as displayed, make note in the Process Information comments field.
  - Ensure that the “SCC Units” correctly corresponds to the “Process Rate”.
- Enter all other known data to the greatest extent possible, i.e. the Operating Hours per Day, the Operating Hours per Week, the Operating Weeks per Year, and the Year of the Emission Estimate (YREST).

- Link any Release IDs to the Process Information page for any associated release points/stacks.

### Emissions Information Data

- Include emission factors (EMS Factor – EMFACT) for each pollutant.
- Include control efficiency
- Do not forget to recalculate your emissions when you update emission factors or throughputs.
- Indicate emission calculation method used by selecting the button named EMS Calc. Method (METH) highlighted red, below and choosing from the dropdown list:

The screenshot shows the 'Emission Information' form with the following data and controls:

- Buttons:** Add, Save, Delete, Previous, Next, Close
- History:** Last EMS Update (EMSUP) 6/12/2019 12:00:00 AM, Person Changing (EMSUPID)
- Device Info:** Device ID (DEV) 12644, Process ID (PROID) 1
- Pollutant Info:** Last Updated (EMSUP\_D), Pollutant ID (POL) 43104, Pollutant Name Volatile Organic Compounds
- Control Devices:** Primary Control (CNTL1), Secondary Control, Control Efficiency (Percent), Forecasted
- Emission Factors:** Uncontrolled EMS Factor, EMS Factor (EMFACT), EMS Factor Last Update, Reason for Change, Person Changing (EMFACUPID), EMS Fact Origin (EMORIG), EMS Factor Reliability (EMREL)
- Emissions:** Maintained by, UnRec. EMS (UNREMS) (area tpy), Annual EMS (tons/yr) 0.381, Hr Max EMS (lbs/hr), Excess EMS (EXEMS), Potential, **EMS Calc. Method (METH) 12** (highlighted in red), Excess Information, Create CT Record for POL
- Fraction:** Calc. Frac. ROG, PM10 (N/A), Fraction ROG (0.4000), Calc. Frac. VOC, PM 2.5 (N/A), Fraction VOC (0.4000), Dis. Frac. PM 1.0, Load User-Defined Fractions
- Compute emissions:** Calculate EMS from ROG, Calculate EMS from TOG
- Estimation status (CR\_FLAG)**
- Memo:** (empty)
- Footer:** Record 1 of 1, See CEIDARS Data Field Descriptions

### REQUIRED HARP2 FIELDS

The fields listed in the following table on **are required** to be filled out in HARP2 for each CEIR submission:

## REQUIRED HARP2 FIELDS

CEIDARS Table	CEIDARS Field Name	CTR Reporting Parameter	Required By		Field is populated using a standardized code (Utility Table/Domain)	Maximum Field Width (Number of characters)	Field Restriction	Notes
			CEIDARS	CTR				
FAC	CO	County	Y	Y	Y	2	Number	
FAC	FACID	Facility ID number	Y	Y		9	Number	
FAC	AB	Air Basin	Y	Y	Y	3	Characters	
FAC	DIS	District	Y	Y	Y	3	Characters	
FAC	FNAME	Facility Name		Y		60	Characters	
FAC	FSTREET	Facility Street		Y (if applicable)		60	Characters	
FAC	FCITY	Facility City		Y (if applicable)		20	Characters	
FAC	FZIP	Facility ZIP code		Y (if applicable)		5	Integers	
FAC	FZIPEXT	Facility ZIP extension		Y (if applicable)		4	Integers	
FAC	FSIC	Facility SIC code	Y	Y	Y	4	Integers	
FAC	FNAICS	Facility NAICS code		Y	Y	6	Characters	
FAC	COORD_SYS	Coordinate system		Y	Y	3	Characters	
FAC	DATUM	Datum		Y	Y	5	Characters	
FAC	X_USERCOORD	Longitude		Y		6	Number	Google Map shows "Y_USERCOORD, X_USERCOORD" (not the other way around)
FAC	Y_USERCOORD	Latitude		Y		6	Number	Google Map shows "Y_USERCOORD, X_USERCOORD" (not the other way around)
FAC	MNAME	Owner/Operator legal name		Y		60	Characters	
FAC	MSTREET	Mailing address		Y		60	Characters	
FAC	MCITY	Mailing city		Y		20	Characters	
FAC	MSTATE	Mailing state		Y		2	Characters	
FAC	MZIP	mailing ZIP		Y		5	Integers	
FAC	MZIPEXT	Mailing ZIP ext.		Y (if applicable)		4	Integers	
DEV	CO	County	Y	Y	Y	2	Number	
DEV	FACID	Facility ID number	Y	Y		9	Number	

DEV	AB	Air Basin	Y	Y	Y	3	Characters	
DEV	DIS	District	Y	Y	Y	3	Characters	
DEV	DEV	Device ID number	Y	Y		6	Integers	
DEV	DEVNM	Device name		Y		40	Characters	
DEV	PERID	Device Permit ID		Y		32	Characters	
DEV	EQSIZE	Design capacity		Y (if applicable)		10	Number	Required for combustion devices only
DEV	EQUNITC	Design capacity units		Y (if applicable)	Y	5	Integers	Required for combustion devices only; use the codes listed in the EQSIZEUNIT utility table
DEV	EQTYPEC	EPA Unit Type Code		Y	Y	5	Integers	Use the codes listed in the EQTYPE utility table
PRO	CO	County	Y	Y	Y	2	Number	
PRO	FACID	Facility ID number	Y	Y		9	Number	
PRO	AB	Air Basin	Y	Y	Y	3	Characters	
PRO	DIS	District	Y	Y	Y	3	Characters	
PRO	DEV	Device ID number	Y	Y		6	Integers	
PRO	PROID	Process ID number	Y	Y		14	Number	
PRO	PRDESC	Process description		Y		60	Characters	
PRO	SCC	SCC code	Y	Y	Y	14	Number	
PRO	SIC	Process SIC code		Y	Y	14	Number	For Process SIC, the CEIDARS 2.5 format states: "Standard Industrial Classification or EIC; Domain: IF FACID>0, Table SIC, Else Table EIC"
PRO	NAICS	Process NAICS code		Y	Y	6	Characters	
PRO	PR	Activity level (process rate)		Y		11	Float	Report process rate data in process rate units (PRUNITS)
PRO	PRUNITS	Process rate units		Y	Y	4	Integers	Use the codes listed in the DEFPRUN utility table; If emissions are quantified using process rate and an emission factor, the use of default SCC units to quantify emissions is preferred, however report the units of measure that are <b>actually used to quantify</b> emissions regardless of whether the default SCC units, or other units of measure, were used.
PRO	PRORIG	Origin of PR data		Y	Y	3	Integers	Use the codes listed in the DEFPRORIG utility table
PRO	STK	Stack ID number		Y		6	Integers	
EMS	CO	County	Y	Y	Y	2	Number	
EMS	FACID	Facility ID number	Y	Y		9	Number	
EMS	AB	Air Basin	Y	Y	Y	3	Characters	

EMS	DIS	District	Y	Y	Y	3	Characters	
EMS	DEV	Device ID number	Y	Y		6	Integers	
EMS	PROID	Process ID number	Y	Y		14	Number	
EMS	POL	Pollutant code	Y	Y	Y	9	Integers	
EMS	CNTLEFF	Control efficiency		Y (if applicable)		4	Number	Only needs to be reported if used to quantify emissions
EMS	EMFACT	Emission factor		Y (if applicable)		10	Float	Report emission factor in units of "pounds per PRUNITS (process rate unit)" for toxics and in units of "tons per PRUNITS" for criteria pollutants (for each pollutant emission result reported). EMFACT and EMORIG can be left blank, if emissions are calculated using other methods (CEMS, mass balance, etc.).
EMS	EMORIG	EF origin		Y (if applicable)	Y	3	Integers	Use codes listed in the DEFEMORIG utility table; EMFACT and EMORIG can be left blank, if emissions are calculated using other methods (CEMS, mass balance, etc.)
EMS	EMS	Emissions	Y	Y		?	Float	Emissions should be reported in pounds per year for toxics, tons per year for criteria pollutants, and Curies per year for radionuclides
EMS	METH	Method		Y	Y	2	Integers	Use codes listed in the DEFMETH utility table
STK	CO	County	Y	Y	Y	2	Number	
STK	FACID	Facility ID number	Y	Y		9	Number	
STK	AB	Air Basin	Y	Y	Y	3	Characters	
STK	DIS	District	Y	Y	Y	3	Characters	
STK	STK	Stack ID number	Y	Y		6	Integers	
STK	STKNAME	Stack name		Y (if applicable)		60	Characters	
STK	STKHT	Stack height		Y (if applicable)		8	Number	Stack Hieght in feet
STK	STKDIAM	Stack diameter		Y (if applicable)		4	Number	Stack Diameter in feet
STK	GT	Gas exit temperature		Y (if applicable)		5	Number	Actual Gas Temp at exit in degrees F
STK	GF	Gas exit flow rate		Y (if applicable)		10	Number	Actual Gas Flow Rate in CFM
STK	GV	Gas exit velocity		Y (if applicable)		8	Number	Actual Gas Velocity in ft/minute
STK	COORD_SYS	Coordinate system		Y	Y	3	Characters	
STK	DATUM	Datum		Y	Y	5	Characters	

STK	X_USERCOORD	Stack longitude		Y		6	Number	
STK	Y_USERCOORD	Stack latitude		Y		6	Number	
STK	SRCTYP	Release location type		Y	Y	7	Characters	Report Type of Release, as specified in ISC: POINT, VOLUME, AREA, or OPEN PIT.
S_UP	CO	County		Y (if applicable)		2	Number	
S_UP	FACID	Facility ID number		Y (if applicable)		9	Number	
S_UP	AB	Air Basin		Y (if applicable)		3	Characters	
S_UP	DIS	District		Y (if applicable)		3	Characters	
S_UP	POL	Pollutant code		Y (if applicable)		9	Characters	
S_UP	USED	Is substance used?		Y (if applicable)		1	Characters	"Y or "N"
S_UP	PRODUCED	Is substance produced?		Y (if applicable)		1	Characters	"Y or "N"
S_UP	PRESENT	Is substance otherwise present?		Y (if applicable)		1	Characters	"Y or "N"
S_UP	HOW_PRESENT	Pounds used, produced or present		Y (if applicable)		39	Characters	Enter amount and units for substances reported as used, produced, or present.

## **VI. SCHEDULE**

### **A. General**

All existing stationary sources of air pollutants are required to submit a CEIR upon a schedule established by the District. This schedule is determined by the facility type based on the applicable NAICS designation which is set forth in the Submission Cycles section below. Please note that a new or updated CEIR will be required for new or modified facilities or emission units in conjunction with an application for construction or modification (See the requirements of District Rule 1302). Such new or updated CEIR will not exempt a facility from its next regularly scheduled submission as specified in section (VI)(C) Submission Cycles.

### **B. Application CEIR Submissions**

New or modified Facilities or Emissions Unit(s) are required to submit a CEIR with any application for construction or modification. For existing Facilities with a current CEIR, which has been approved by, and is on file with, the District, the application CEIR submission may be in the form of a revision. A revised CEIR shall be prepared in the same manner, using the current CEIR, and including the location and emissions (or proposed emissions) from any new or modified emission unit(s). The CEIR will also need to indicate which, if any, existing Emissions Unit(s) have or will be removed from service or which have modified emissions. The District reserves the right, upon written notice to the applicant, to require a complete CEIR submission with any application.

## C. Submission Cycles

The District will send a request letter to the facility when a CEIR are due; however, the general guidance for submission is summarized below. The District does its very best to inventory every facility in the District at least once every three years.

The following facilities are required to prepare and submit a CEIR on an annual (in addition to annual reporting requirements from the CTR) basis unless otherwise exempted by the District:

- 1) Any federally major facility, i.e. facilities that have a Title V Permit/Federal Operating Permit.
- 2) Any facility that has a potential to emit a criteria or toxic pollutant at 80 percent of the Title V applicability threshold or greater, i.e. a “synthetic minor” facility. The potential to emit thresholds for “synthetic minor” facilities are indicated in Table 3, below. If a facility has a potential to emit at these thresholds or greater they must report annually.
- 3) Any facility for which during an application and evaluation process an annual requirement was deemed necessary to comply with the New Source Review and/or Toxic New Source Review programs, enforceable through a permit condition. The most common example is an annual inventory requirement to verify compliance with a facility emissions limit or limits (facility cap).
- 4) Any Retail Gasoline Dispensing facility.
- 5) Any facility that is subject to the annual emissions reporting requirements of the Reporting of Criteria Air Pollutants and Toxic Air Contaminants” (or CTR) pursuant to 17 CCR 93400.

Table 2 – Synthetic Minor Sources: Potential to Emit

<b>Pollutant</b>	<b>Facilities located in the FONAs* Potential to Emit (tons per year)</b>	<b>Facilities located outside the FONAs* Potential to Emit (tons per year)</b>
NO <sub>x</sub>	20	80
VOC	20	80
CO	80	80
PM <sub>10</sub>	80	80
SO <sub>x</sub>	80	80
Any single toxic pollutant	8	8
Any combination of toxic pollutants	20	20

\*FONA means the Federal Ozone Non-Attainment Area as specified in District Rule 102.

Any facility that is not subject to the annual reporting requirements specified above is required to prepare and submit a CEIR every three (3) years which is inclusive of both criteria and toxic emissions reporting. Please refer to Table 4 - Third Year Cycles for applicable submission year cycle.

Table 3 - Third Year Cycle for CEIR Submissions

Group	Facility Type	NAICS	Emission Year	CEIR Due
A	Mining	212xxx	2027, 2030, etc.	2028, 2031, etc.
	Cement Manufacturing	327310		
	Transportation Equipment Manufacturing	336xxx		
	Air Transportation	48xxxx		
	Other Transportation	49xxxx		
	Dry Cleaning	812320		
	Space Research and Technology	927110		
B	Food Manufacturing	31xxxx	2025, 2028, etc.	2026, 2029, etc.
	Wood Product Manufacturing	321xxx		
	Printing	323xxx		
	Petroleum and Coal	324xxx		
	Chemical Manufacturing	325xxx		
	Plastics and Rubber	326xxx		
	Glass Manufacturing	3272xx		
	Ready-Mix Concrete	32732x		
	Concrete Pipe, Brick and Block	32733x		
	Lime and Gypsum	3274xx		
	Nonmetallic Mineral	3279xx		
	Machinery Manufacturing	333xxx		
	Furniture Manufacturing	337xxx		
	Automobile Dealer	4411xx		
	Information	51xxxx		
	Real Estate	53xxxx		
	Waste Management	56xxxx		
	Repair and Maintenance	811xxx		
	Public Administration			
		922xxx		
		924xxx		
		928xxx		

*Please note this table is continued on the next page.*

Group	Facility Type	NAICS	Emission Year	CEIR Due
C*	Agriculture	1xxxxx	2026, 2029, etc.	2027, 2030, etc.
	Mining Support	213xxx		
	Utilities	22xxxx		
	Construction	23xxxx		
	Metal Manufacturing	331xxx		
	Fabricated Metal Product	332xxx		
	Computer and Electronics	334xxx		
	Electrical Equipment	335xxx		
	Miscellaneous Manufacturing	339xxx		
	Wholesale Trade	42xxxx		
	Building Material Dealer	444xxx		
	Food and Beverage Stores	445xxx		
	Gasoline Station	447xxx		
	Sporting Goods Retail	45xxxx		
	Finance and Insurance	52xxxx		
	Services	54xxxx		
	Education	6xxxxx		
	Other Services	7xxxxx		
Death Care Services	8122xx			
Other Personal Services	8129xx			
Civic Organizations	813xxx			

\*Includes any source types not listed in Groups A and B

### D. Annual Time Table for Submissions

The following is the standard schedule for submission of CEIR documents to the District. The District reserves the right to require submission of CEIR documents on a different time schedule to meet the needs of the District or State. Facilities will be notified in writing if an alternative time schedule for submissions will be used.

Table 4 - CEIR Submission Deadlines

Document Type	Deadline/Due Date
CEIR Letter Request	January 26 <sup>th</sup>
Inventory Report – CEIR	March 31 <sup>st</sup>
District Inventory to CARB	June 1 <sup>st</sup>

## **E. Previous Inventory Data**

The District has copies of the previously submitted emissions inventory data for many facilities in HARP2 format. Such data is available in electronic format for ‘Importing’ into HARP2 or printout (hardcopy) format from the District upon request. The District requires that a facility must use the HARP2 transaction file previously approved by the District as a starting point for updating subsequent inventories.

A facility can review their previous inventory data in CARB’s District Resources for Emission Inventory Database also known as California’s Emission Inventory Development and Reporting System (CEIDARS):

- <https://www.arb.ca.gov/ei/drei/maintain/database.htm>

## **VII. REFERENCES AND HELPFUL LINKS**

Many of the documents referenced in these Guidelines may be found on the Internet. The following listed documents may be downloaded or read at the following locations:

- Proposed Consolidated Emissions Reporting Rule (65 FR 33268, 5/23/2002):  
• <https://www3.epa.gov/ttn/atw/files/cerr/cerrpg.html>
- AVAQMD Rule & Regulations:  
<https://www.avaqmd.ca.gov/rule-book>
- California Air Toxics Program  
<http://www.arb.ca.gov/toxics/toxics.htm>  
<http://www.arb.ca.gov/ab2588/ab2588.htm>
- CARB “Hot Spots” and EICG Inventory Guidelines  
<https://ww2.arb.ca.gov/our-work/programs/ab-2588-air-toxics-hot-spots/hot-spots-inventory-guidelines>
- CARB Criteria Pollutant and Toxics Emission Reporting (CTR)  
<https://ww2.arb.ca.gov/our-work/programs/criteria-and-toxics-reporting>
- Emission Inventory Criteria and Guidelines for the Air Toxics “Hot Spots” Program <https://ww2.arb.ca.gov/our-work/programs/criteria-and-toxics-reporting>  
[www.arb.ca.gov/ab2588/2588guid.htm](http://www.arb.ca.gov/ab2588/2588guid.htm)
- ATCM Standards  
<https://ww2.arb.ca.gov/resources/documents/airborne-toxic-control-measures>
- New Source Performance Standards  
<https://www.epa.gov/stationary-sources-air-pollution/national-emission-standards-hazardous-air-pollutants-neshap-8>

- NESHAPS/MACT Standards
- <https://www.epa.gov/stationary-sources-air-pollution/national-emission-standards-hazardous-air-pollutants-neshap-8>
- List of Hazardous Air Pollutants under 42 U.S.C. §7412
- <https://www.epa.gov/haps/initial-list-hazardous-air-pollutants-modifications>
- HARP  
<http://www.arb.ca.gov/toxics/harp/harp.htm>
- Health Risk Assessment Guidance
  - CARB/CAPCOA's: Risk Management Guidance for Stationary Sources of Air Toxics:  
<https://www.arb.ca.gov/toxics/rma/rmgssat.pdf>
  - OEHHA's Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments:  
<https://oehha.ca.gov/air/crn/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0>
- Emission Inventory Methods  
<http://www.arb.ca.gov/ei/ei.htm>  
<https://www.epa.gov/air-emissions-inventories>
- Emission Factors
  - Clearing House for Inventories and Emission Factors (CHIEF):  
<https://www.epa.gov/chief>
  - USEPA's AP-42:  
<https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emission-factors>
  - California Air Toxic Emission Factors (CATEF):  
<http://www.arb.ca.gov/ei/catef/catef.htm>
  - San Diego APCD:  
[http://www.sdapcd.org/content/sdc/apcd/en/engineering/Permits/Engineering\\_Emissions\\_Inventory/Engineering\\_Phase\\_3\\_Toxics\\_Procedures.html](http://www.sdapcd.org/content/sdc/apcd/en/engineering/Permits/Engineering_Emissions_Inventory/Engineering_Phase_3_Toxics_Procedures.html)
  - Ventura Co. APCD:  
<http://www.vcapcd.org/pubs/Engineering/AirToxics/combem.pdf>
  - South Coast AQMD:  
<http://www.aqmd.gov/aer/aer.html>
  - Antelope Valley AQMD:  
<https://www.avaqmd.ca.gov/emissions-inventory-program>
- Standard Industrial Classification (SIC):  
<https://www.osha.gov/data/sic-search>
- North American Industry Classification System (NAICS):  
<https://www.census.gov/naics/>
- Source Classification Code (SCC):

<https://sor-scc-api.epa.gov/sccwebservices/sccsearch/>

- Maps/Photos
  - Google Earth: <http://earth.google.com/> (Free Version)