

## EMISSIONS ACTIVITY CATEGORY FORM ROADWAYS AND PARKING AREAS: FUGITIVE DUST EMISSIONS

*This form is to be completed for all Roadways and Parking Areas. State/Federal regulations which may apply to Roadways and Parking Areas are listed in the instructions. Note that there may be other regulations which apply to this emissions unit which are not included in this list.*

1. Reason this form is being submitted (Check one)

New Permit       Renewal or Modification of Air Permit Number(s) (e.g. F001) \_\_\_\_\_

2. Maximum Operating Schedule: \_\_\_\_\_ hours per day; \_\_\_\_\_ days per year

If the schedule is less than 24 hours/day or 365 days/year, what limits the schedule to less than maximum? See instructions for examples. \_\_\_\_\_

3. Complete the table below for each road segment or parking area.

ID	Road Segment or Parking Area Description	Length (miles) or Area (ft <sup>2</sup> )	Year Installed	Surface Type (check one)	Surface Composition (check one)
A				<input type="checkbox"/> paved <input type="checkbox"/> unpaved	<input type="checkbox"/> asphalt <input type="checkbox"/> gravel <input type="checkbox"/> concrete <input type="checkbox"/> dirt <input type="checkbox"/> chip & seal <input type="checkbox"/> other
B				<input type="checkbox"/> paved <input type="checkbox"/> unpaved	<input type="checkbox"/> asphalt <input type="checkbox"/> gravel <input type="checkbox"/> concrete <input type="checkbox"/> dirt <input type="checkbox"/> chip & seal <input type="checkbox"/> other
C				<input type="checkbox"/> paved <input type="checkbox"/> unpaved	<input type="checkbox"/> asphalt <input type="checkbox"/> gravel <input type="checkbox"/> concrete <input type="checkbox"/> dirt <input type="checkbox"/> chip & seal <input type="checkbox"/> other
D				<input type="checkbox"/> paved <input type="checkbox"/> unpaved	<input type="checkbox"/> asphalt <input type="checkbox"/> gravel <input type="checkbox"/> concrete <input type="checkbox"/> dirt <input type="checkbox"/> chip & seal <input type="checkbox"/> other
E				<input type="checkbox"/> paved <input type="checkbox"/> unpaved	<input type="checkbox"/> asphalt <input type="checkbox"/> gravel <input type="checkbox"/> concrete <input type="checkbox"/> dirt <input type="checkbox"/> chip & seal <input type="checkbox"/> other
F				<input type="checkbox"/> paved <input type="checkbox"/> unpaved	<input type="checkbox"/> asphalt <input type="checkbox"/> gravel <input type="checkbox"/> concrete <input type="checkbox"/> dirt <input type="checkbox"/> chip & seal <input type="checkbox"/> other

4. Complete the table below for each paved road segment or parking area.

ID	Silt Loading (g/m <sup>2</sup> )	Vehicle Type	Avg. Weight (tons)	Avg. Speed (mph)	Vehicle Miles Traveled (vmt/yr)	Control Method(s)	Application or Usage Frequency
A						<input type="checkbox"/> sweeping <input type="checkbox"/> flushing <input type="checkbox"/> watering <input type="checkbox"/> good housekeeping <input type="checkbox"/> other: _____	
B						<input type="checkbox"/> sweeping <input type="checkbox"/> flushing <input type="checkbox"/> watering <input type="checkbox"/> good housekeeping <input type="checkbox"/> other: _____	
C						<input type="checkbox"/> sweeping <input type="checkbox"/> flushing <input type="checkbox"/> watering <input type="checkbox"/> good housekeeping <input type="checkbox"/> other: _____	
D						<input type="checkbox"/> sweeping <input type="checkbox"/> flushing <input type="checkbox"/> watering <input type="checkbox"/> good housekeeping <input type="checkbox"/> other: _____	
E						<input type="checkbox"/> sweeping <input type="checkbox"/> flushing <input type="checkbox"/> watering <input type="checkbox"/> good housekeeping <input type="checkbox"/> other: _____	
F						<input type="checkbox"/> sweeping <input type="checkbox"/> flushing <input type="checkbox"/> watering <input type="checkbox"/> good housekeeping <input type="checkbox"/> other: _____	

5. Identify all the places that the permittee's roadways and parking lots meet a public road. Use the Road Segment or Parking Area ID from the table above to identify the permittee's roadway and parking lots that are involved. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Describe how any foreign materials deposited on public paved roadways will be removed.

- Flushing with water  
  Wet sweeping  
  Sweeping with vacuum truck  
  Other. Describe

\_\_\_\_\_

6. Complete the table below for each unpaved road segment or parking area.

ID	Silt Content (%)	Surface Material Moisture Content (%)	Vehicle Type	Avg. Weight (tons)	Avg. Speed (mph)	Vehicle Miles Traveled (vmt/yr)	Control Method(s)	Application or Usage Frequency
A							<input type="checkbox"/> oiling <input type="checkbox"/> watering <input type="checkbox"/> surface improvement <input type="checkbox"/> chemical stabilization	
B							<input type="checkbox"/> oiling <input type="checkbox"/> watering <input type="checkbox"/> surface improvement <input type="checkbox"/> chemical stabilization	
C							<input type="checkbox"/> oiling <input type="checkbox"/> watering <input type="checkbox"/> surface improvement <input type="checkbox"/> chemical stabilization	
D							<input type="checkbox"/> oiling <input type="checkbox"/> watering <input type="checkbox"/> surface improvement <input type="checkbox"/> chemical stabilization	
E							<input type="checkbox"/> oiling <input type="checkbox"/> watering <input type="checkbox"/> surface improvement <input type="checkbox"/> chemical stabilization	
F							<input type="checkbox"/> oiling <input type="checkbox"/> watering <input type="checkbox"/> surface improvement <input type="checkbox"/> chemical stabilization	

7. The use of used oil for dust suppression is prohibited. Used oil is any oil that has been refined from crude oil, or any synthetic oil, that has been used, and, as a result of that use, is contaminated by physical or chemical impurities. See OAC rule 3745-279-01. Used oil does not include oils that have been refined from crude oil that have not been used or any synthetic oil that has not been used.

If oiling is being used for dust suppression, is only virgin oil being used?

Yes   
  No   
  Not using oil

# INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR ROADWAYS AND PARKING AREAS

**GENERAL INSTRUCTIONS:** Provide complete responses to all applicable questions. If an item does not apply to the emissions unit, write in "Not Applicable" or "NA." If the answer is not known, write in "Not Known" or "NK." If you need assistance in understanding a question after reading the instructions below, contact your Ohio EPA District Office or Local Air Agency for assistance. Submittal of an incomplete application will delay application review and processing. In addition, the application may be returned as incomplete if all applicable questions are not answered appropriately.

## **APPLICABLE REGULATIONS**

*The following State and Federal Regulations may be applicable to roadways and parking areas. Note that there may be other regulations which apply to this emissions unit which are not included in this list.*

State:           OAC rule 3745-31-02 (Permit to Install)  
                  OAC rule 3745-35-02 (Permit to Operate)  
                  OAC rule 3745-17-07(B) (Visible Fugitive Particulate Emissions Rules)  
                  OAC rule 3745-17-08 (Particulate Emissions Rules)  
                  OAC rule 3745-15-07 (Nuisances Prohibited)

If you would like a copy of these regulations, contact your Ohio EPA District Office or Local Air Agency. State regulations may also be viewed and downloaded from the Ohio EPA website at <http://www.epa.state.oh.us/dapc/regs/regs.html>. Federal regulations may be viewed and downloaded at <http://www.epa.gov/docs/epacr40/chapt-I.info/subch-C.htm>.

## **CALCULATING EMISSIONS:**

The emissions from the roadways and parking areas may be estimated using the information from sections 13.1 and 13.2 of AP-42, Compilation of Air Pollutant Emission Factors, Fifth Edition, Volume I, available from the following website: <http://www.epa.gov/ttn/chief/ap42/index.html>.

## **SPECIFIC INSTRUCTIONS:**

1. Indicate whether this is an application for a new permit or an application for permit renewal. If applying for a permit renewal, provide the 4-character OEPA emissions unit identification number.
2. Provide the maximum number of hours per day and days per year the roadways and parking areas are expected to operate. The following are examples of why the maximum number of hours per day may be less than 24 or the maximum number of days per year may be less than 365 (this list is not all-inclusive):
  - The facility can only operate during daylight hours.
  - The process can only operate within a certain range of ambient temperatures.
  - The process is limited by another operation (i.e., a bottleneck).
3. Identify each road segment or parking area and provide the approximate length or surface area and year installed. Identify the surface type and composition by checking the appropriate boxes. Please select each road segment or parking area such that each segment or area is continuous and has the same information for each element of the table. A diagram should be submitted with this form that shows all roadways and parking areas at the facility and the corresponding information.

4. Please complete the table for each paved road segment or parking area. Provide the silt loading, in grams per square meter, by following the procedures in Appendices C.1 and C.2 in AP-42 . If measured silt loading data are not available for paved surfaces, typical silt loading values at several types of industries are given in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume I, available from the following website: <http://www.epa.gov/ttn/chief/ap42/index.html>. Identify all general vehicle types traveling on each road segment and/or parking area. Vehicles should be classified as being light-duty gasoline (about 2 tons), heavy-duty gasoline (about 15 tons), heavy-duty diesel (about 40 tons), or other. Identify the average vehicle weight in tons and the total vehicle miles traveled on the road segment or parking area. (This is a weighted average based on vehicle miles traveled. You may list vehicle weights and corresponding miles traveled for each road segment instead if you desire.) Identify the average vehicle speed in miles per hour. Identify control methods used on each road segment or parking area. Identify the application or usage schedule (e.g., once per week, once per month, etc.) for those control methods.

If there are more road segments and parking areas at the facility than can be accommodated on this form, please use additional copies of this form.

5. Identify all the places that the permittee's roadways and parking areas meet a public road. Use the Road Segment or Parking Area ID from the table to identify the permittee's roadway and parking areas that are involved. For example: The facility's entrance road (road segment ID A) is 100 yards north of the West Main Street and South Fifteenth Avenue intersection on South Fifteenth Avenue and the facility's exit road (road segment ID E) is 300 yards north of this same intersection on the same avenue.

If any foreign materials are deposited on a public road by vehicles which traveled on the facility's roadways and parking areas, identify how the foreign materials will be cleaned up.

6. Please complete the table for each unpaved road segment or parking area. Provide the silt content, in percentage, of the road surface materials for unpaved surfaces. Silt refers to particles that have a diameter equal to or less than 75 microns. Determine the silt content by following the procedures in Appendices C.1 and C.2 in AP-42 . If measured silt content data are not available for unpaved surfaces, typical silt content values at several types of industries are given in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume I, available from the following website: <http://www.epa.gov/ttn/chief/ap42/index.html>. Provide the surface material moisture content of the road surface materials for unpaved surfaces. The content information must be for dry, worst-case conditions. The use of appropriate site-specific content information is preferable to the use of the default value of 0.2%. Identify all general vehicle types traveling on each road segment and/or parking area. Vehicles should be classified as being light-duty gasoline (about 2 tons), heavy-duty gasoline (about 15 tons), heavy-duty diesel (about 40 tons), or other. Identify the average vehicle weight in tons and the total vehicle miles traveled on the road segment or parking area. (This is a weighted average based on vehicle miles traveled. You may list vehicle weights and corresponding miles traveled for each road segment instead if you desire.) Identify the average vehicle speed in miles per hour. Identify control methods used on each road segment or parking area. Identify the application or usage schedule (e.g., once per week, once per month, etc.) for those control methods.

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