

The methane emissions monitoring plan shall include the following:

(A) A topographical map showing the following:

- (1) The perimeter of the limits of industrial waste placement.
- (2) The monitoring route.

(B) Identification of the monitoring equipment to be used. The owner or operator shall use one of the following types of monitoring equipment:

- (1) An organic vapor analyzer.
- (2) A flame ionization detector.
- (3) Another portable analyzer meeting the instrument specifications provided in section 6 of the "Determination of volatile organic compound leaks, Method 21", as described in rule 3745-500-03 of the Administrative Code, except that "methane" shall replace all references to VOC.

(C) The methane emissions monitoring procedures. The owner or operator shall implement the following procedures through the methane emissions monitoring plan:

- (1) The owner or operator shall perform methane emissions monitoring quarterly.
- (2) The owner or operator shall perform methane emissions monitoring in accordance with section 8.3.1 of the "Determination of volatile organic compound leaks, Method 21", as described in rule 3745-500-03 of the Administrative Code, except that the probe inlet shall be placed within five to ten centimeters of the ground.
- (3) Monitoring shall be performed during typical meteorological conditions.
- (4) The owner or operator shall monitor surface concentrations of methane at the following locations:
 - (a) Along the methane emissions monitoring route.
 - (b) Where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps bubbling in the cover.
 - (c) One hundred feet upwind and downwind of the perimeter limits of industrial waste placement.

(D) The means for determining wind direction.

(E) The means for determining the monitoring route in the field and for measuring distances. The methane emissions monitoring route shall follow the perimeter of the limits of industrial waste placement and along a pattern that traverses the surface of the industrial facility at one hundred foot intervals. Areas with steep slopes or other dangerous areas may be excluded from the route. The director may approve an alternative traversing pattern if the pattern ensures equivalent coverage.

(F) Reporting procedures. Not later than five days after each monitoring event for methane emissions, the owner or operator shall submit a report to Ohio EPA. The report shall include the following:

- (1) The date.
- (2) The meteorological conditions.
- (3) A topographic map showing the following:
 - (a) The monitoring route taken.
 - (b) The location of each monitored exceedence and the result.
 - (c) The wind direction.
 - (d) The background monitoring locations and background methane concentrations.
 - (e) The limits of industrial waste placement.
- (4) The name of the person who conducted the methane emissions monitoring.

(G) Contingency monitoring procedures. The owner or operator shall implement the following contingency monitoring procedures through the methane emissions monitoring plan:

- (1) If any methane concentration is greater than five hundred parts per million above background at the surface of the landfill, the owner or operator shall conduct contingency monitoring for surface concentrations of methane. contingency monitoring shall be scheduled as follows:
 - (a) For the first occurrence of an exceedence, contingency monitoring of the location shall occur not more than ten days after detecting the exceedence.

(b) If the ten-day contingency monitoring of the location shows a second exceedence at the same location, the owner or operator shall install an explosive gas extraction system meeting the criteria in rule 3745-525-275 of the Administrative Code.

(c) If the ten-day contingency monitoring of the location does not show an exceedence, the location shall be monitored not more than one month after detecting the initial exceedence.

(d) If the one-month contingency monitoring of the location shows a concentration less than five hundred parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period.

(e) If the one-month contingency monitoring of the location shows an exceedence, the owner or operator shall install an explosive gas extraction system meeting the criteria in rule 3745-525-275 of the Administrative Code.

(2) Not later than one hundred-twenty days after detecting the exceedence described in paragraph (G)(1)(b) or (G)(1)(c) of this rule, the owner or operator shall submit a plan for an explosive gas extraction system to Ohio EPA.