Petroleum Refinery Fenceline Monitoring Stakeholder Engagement

Webinar for Industry
June 21, 2016
Overview

► Process
► Schedule
► CEDRI
► Public Display of Data - Examples
► Stakeholder Input
► Additional Information
Process

- **Input data**: 45 days after reporting period
- **Review data**: 30 days
  - CEDRI
  - web page
- **Display data**: 30 days after data input
<table>
<thead>
<tr>
<th>Milestones</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refineries install fenceline monitoring systems</td>
<td>Present – January 29, 2018</td>
</tr>
<tr>
<td>Refineries begin collecting data</td>
<td></td>
</tr>
<tr>
<td>• Collect 12 months of data to calculate annual average</td>
<td>January 30, 2018</td>
</tr>
<tr>
<td>Refineries report data to EPA’s emissions data system</td>
<td></td>
</tr>
<tr>
<td>• Refineries continue to report data on quarterly basis</td>
<td>Spring 2019</td>
</tr>
<tr>
<td>• Refineries compare annual average to 9 micrograms per cubic meter</td>
<td></td>
</tr>
<tr>
<td>EPA public release of benzene data on web page 30 days after quarterly</td>
<td></td>
</tr>
<tr>
<td>days after quarterly reporting period ends</td>
<td>Summer 2019</td>
</tr>
<tr>
<td>• Data will be refreshed quarterly on EPA’s public web page</td>
<td></td>
</tr>
</tbody>
</table>
CEDRI

- EPA’s Compliance and Emissions Data Reporting Interface
CEDRI – Selecting a Report
CEDRI – Creating a Report

You are currently registered under the "Certifier" role and may prepare and certify reports electronically for your associated facilities. Reports that have been selected, but not yet started are listed in the 'New Reports' section. Reports that have been started, but are not yet complete can be found in the 'In Progress Reports' section. Reports that are complete, but awaiting certification can be found in the 'Ready for Certification' section.

If you would like to create a new report, click the "Create New Report" button. Also the User Guide for CEDRI is located here CEDRI User Guide for your benefit.
CEDRI – Creating/Editing a Report
CEDRI – General Information Page

Fenceline Monitoring: Welcome Page

General Information

Reporting Requirements

Fill out this form for fenceline monitoring systems subject to §63.658, within 45 calendar days after the end of each reporting period. Each owner or operator shall submit the following information to the EPA's Compliance and Emissions Data Reporting Interface (CEDRI): The owner or operator need not transmit this data prior to obtaining the initial 12 months of data. (§63.655(h)(8))

For the first reporting period and whenever a passive sampler is added or moved, the owner or operator shall report the coordinates of all of the passive sampler locations. The owner or operator shall determine the coordinates using an instrument with an accuracy of at least 3 meters. Coordinates shall be in decimal degrees with at least five decimal places. (§63.655(h)(8)(i))

On the next page, please provide the passive sampler IDs, coordinates, sampler type and their corresponding sampling period for each biweekly sampling period for this reporting period. Also, please provide the individual sample results for each passive monitor for each biweekly sampling period. Ensure your report/data includes all of the required data elements found in the listed citations below.

i. Provide the biweekly annual average concentration difference (Δc) values for benzene for the reporting period. (§63.655(h)(8)(i))

ii. Provide notation for each biweekly sampling period value that indicates:
   a. whether background correction was used,
   b. all measurements in the sampling period were below detection, or
   c. whether an outlier was removed from the sampling period data set. (§63.655(h)(8)(iii))

Template Instructions

You may upload a completed Excel template to submit data for this reporting period. Please click the following link to download the Excel template: https://www3.epa.gov/ttn/chief/cedri/index.html. Once you complete your data entry in the Excel template, you may upload the template on the next page by selecting the "Upload" button and the Excel file will populate the table.

Report Navigation

Use the 'Next Page' and 'Previous Page' buttons to navigate between pages. At any time, you may save your progress and return to the submission package by selecting the 'Save & Close' button.

When the form is complete, please select the 'Mark as Complete' button.

Please proceed to the next page by selecting the 'Next Page' button.
CEDRI – Reporting Period and Sampling Data

![Image of CEDRI reporting period and sampling data interface](image)

**Reporting Period**
- **Year and Quarter**: 2016, Quarter 1
- **Start Date**: 01/01/2016
- **End Date**: 03/31/2016

**Sampling Data**
You may download an Excel template to submit data for this reporting period. Once you complete your data entry in the Excel template, please click the Upload button below to upload the Excel file. The Excel file will populate the table below. After upload, you may edit the populated data within the table below if desired.

**Download Template**

<table>
<thead>
<tr>
<th>Passive Sampler ID</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Type</th>
<th>Start Date of Sampling Period</th>
<th>End Date of Sampling Period</th>
<th>Sample Concentration of Benzene (ppm)</th>
<th>Is Concentration Below DL?</th>
<th>Outlier</th>
<th>Background Correction Used?</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS-1</td>
<td>42.879459</td>
<td>-78.875205</td>
<td>Primary</td>
<td>01/01/2016</td>
<td>03/31/2016</td>
<td>3.59</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PS-2</td>
<td>43.453459</td>
<td>-78.255363</td>
<td>Primary</td>
<td>01/01/2016</td>
<td>03/31/2016</td>
<td>3.432</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PS-3</td>
<td>43.435563</td>
<td>-78.235267</td>
<td>Primary</td>
<td>01/01/2016</td>
<td>03/31/2016</td>
<td>3.456</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Additional Information**
- Provide the annual average $\Delta c$ for all biweeks.
- **Sampling Period $\Delta c$ for Biweek 2**
  This value is auto-calculated for each biweek within the reporting period.

3.233
CEDRI – Defining a Reporting Period

Reporting Period
What is the year and quarter that you are reporting for?
Please select the reporting year
2016
Please select the reporting period
Quarter 1
Start Date of reporting period
01/01/2016
End Date of reporting period
03/31/2016

Sampling Data
You may download an Excel template to submit data for this reporting period. Once you complete your data entry in the Excel template, please click the Upload button below to upload the Excel file. The Excel file will populate the table below. After upload, you may edit the populated data within the table below if desired.

Download Template
Upload

If not utilizing a template, please complete the table below for the reporting period.

<table>
<thead>
<tr>
<th>Passive Sampler Id</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Type</th>
<th>Start Date of Sampling Period</th>
<th>End Date of Sampling Period</th>
<th>Sample Concentration of Benzene (µg/m³)</th>
<th>Is Concentration BDL?</th>
<th>Outlier</th>
<th>Background Correction Used?</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS-1</td>
<td>42.879489</td>
<td>-78.376205</td>
<td>Primary</td>
<td>01/01/2016</td>
<td>03/31/2016</td>
<td>3.59</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
CEDRI – Providing Sampling Data

**Sampling Data**

You may download an Excel template to submit data for this reporting period. Once you complete your data entry in the Excel template, please click the Upload button below to upload the Excel file. The Excel file will populate the table below. After upload, you may edit the populated data within the table if desired.

**Download Template**

**Upload**

If not utilizing a template, please complete the table below for the reporting period.

![Sampling Data Table](image)

**Add Row**

Provide Annual Average Δc

Provide the annual average Δc for all biweeks:

Δc

3.233

**Sampling Period Δc for Biweek 2**

This value is auto-calculated for each biweek within the reporting period.
CEDRI – Additional Information

Additional Information
Please enter any additional information.

Sampling Period $\Delta c$ for Biweek 2
This value is auto-calculated for each biweek within the reporting period.

$\Delta c = 3.233$

Attach a ZIP file if submitting multiple files or a PDF file if submitting a single file for any other additional information needed to be submitted. If you elect to use a ZIP file, the ZIP file may contain individual files in any file format (e.g. .xlsx, .docx, PDF).

Click upload to attach any additional information.

You have reached the end of the report. To continue, please click the ‘Mark as Complete’ button.
<table>
<thead>
<tr>
<th>A</th>
<th>J</th>
<th>K</th>
<th>N</th>
<th>O</th>
<th>P</th>
<th>Q</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>U</th>
<th>V</th>
<th>W</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>AA</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-1</td>
<td>42.87949</td>
<td>-78.87621</td>
<td>Primary</td>
<td>1/1/2016</td>
<td>3/31/2016</td>
<td>5.153</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>1/1/2016</td>
<td>3/31/2016</td>
<td>3.159</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>1/1/2016</td>
</tr>
</tbody>
</table>
Public display of data

- EPA is designing a web page to display fenceline refinery data
- Web page will be managed by EPA
- Design will incorporate stakeholder ideas
- Available to public in Summer 2019
Fenceline Monitoring for Petroleum Refineries

On December 1, 2015, the Environmental Protection Agency (EPA) issued a final rule that will further control toxic air emissions from petroleum refineries and provide important information about refinery emissions to the public and neighboring communities. This site offers more about that regulatory action, the health effects of benzene, and offers several options for viewing data from refinery fenceline monitors.

Refinery Information

- What are refineries?
- How does EPA regulate refineries?

Health Information

- What are health effects of benzene?

Access Monitoring Data

In Your Community

- Envirofacts
Story Map – Home Page
Facility: Fenceline Monitors

**data are for demonstration purposes only**
Facility: Individual Fenceline Monitor Pop-up

**data are for demonstration purposes only**
Facility: Facility Wide Pop-up

**data are for demonstration purposes only**
Stakeholder Input

► How to provide your input
  ► Email: fencelineteam@epa.gov
    • Please send input by July 31, 2016

► Questions for stakeholders to consider
  ► What information needs to be included on a web page to understand the data?
  ► What information and data on benzene do you want to see on the web page?
  ► What other information would be helpful for you?
  ► Is there other training or support that might be helpful?
Additional Information

For updates and additional information:
https://www3.epa.gov/ttn/atw/petref.html