Open Path Fence Line Monitoring:

Description of Method:

For this study the method of sampling the ambient air along the fence line of the refinery involves the use of an open-path Ultra-violet air monitoring system manufactured by Argos Scientific, Inc. The system has the capability of simultaneously detecting; Benzene, Carbon Disulfide, Chlorine, Ozone, Phenol, P-Xylene, Sulfur Dioxide and Toluene on a real time basis. Data from the air monitoring system will be collected and reported on an Internet site that is accessible to the public. The systems will be operated using a modified version of EPA's method TO-16 "Compendium Method TO-16 Long-Path Open-Path Fourier Transform Infrared Monitoring Of Atmospheric Gases".

Hardware:

Sampler - Argos Scientific, Inc. Open-path UV Air Sampling System

Sample Compounds

Chemical	Det Limits (ppb)
Benzene	10
Carbon Disulfide	10
Chlorine	10
Ozone	10
Phenol	10
P-Xylene	10
Sulfur Dioxide	10
Toluene	10

Sample Frequency:

Sample collected every 5 minutes and reported on real-time community website

Sample Location: Fenceline Monitoring Location

Quality Control / Quality Assurance:

- Standard Operating Procedure Manual for the Sampling Instrument.
- Sample will be analyzed using modified version of EPA Compendium Method TO-16.

Reference Documents:

Appendix A - Product Brochure From Argos Scientific

Appendix B - EPA's Compendium Method TO-16

Appendix C –Argos Scientific, Inc. Operations and QA/QC Guide