

Proposed Technical Projects for Victoria Fy 2010-2011

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Fy 2010-2011 Work Plan

Phase I

April 1, 2010 to Aug 31, 2010

Phase II

Sep 1, 2010 to Aug 31, 2011

Phase I Task 1 Conceptual Description

Update Conceptual Description to Include Data through 2009

Base all analyses on three levels of the potential 8-hour ozone standard

- **60 – 64 ppb**
- **65 – 69 ppb**
- **>70 ppb**

Identify necessary conditions for formation of high ozone concentrations

Completed

Phase I Task 2 Ambient Monitoring

- **Two new enhanced upwind and downwind background monitoring sites**
- **Routine, seasonal, hourly ambient monitoring data**
- **In place April 15 to Nov 15**
- **Monitor for 2010 and 2011**
- **Data to TCEQ LEADS**
- **Measure**
 - **Ozone**
 - **NOx at one site**
 - **Wind speed**
 - **Wind direction**
 - **Temperature**

Phase I Task 3.1 Emissions Inventory Review

- **Review area and non-road portions of 2005 and 2008 National Emissions Inventories**
- **Provided by TCEQ**
- **Completed**

Phase I Task 3.2 Bottom up research on two emission source categories

- **Develop plan**
- **Identify research activities**
- **Use local surveys**
- **Design surveys**
- **Two likely source categories**
 - **Diesel equipment used by City and County**
 - **Architectural Coatings (paint)**
- **Completed**

Phase II Task 2 Conceptual Description

TCEQ is requiring that the conceptual model be updated each year.

- **Postponed for one year and included in next FY**
- **Update Conceptual Description to Include Data through 2011**

Similar to Conceptual Description for Phase I

Phase II Task 3.1 Ambient Monitoring

- **Continue enhanced upwind and downwind background monitoring sites at Inez and Fannin**
- **Routine, seasonal, hourly ambient monitoring data**
- **In place April 15 to Nov 15**

Phase II Task 3.2 Ambient Monitoring

Analysis of Volatile Organic Compounds Trends in the Victoria area

- **Collect 12 VOC canister samples at 4 sites for 3 consecutive days**
 - **Memorial Square Park**
 - **CAMS87**
 - **Inez**
 - **Fannin**
- **Sampling in May 2011**
- **Sampling completed and report being written**

Phase II Task 3.3 Ambient Monitoring

Hydrocarbon and Ozone Flux Measurements

Surface Mobile Sampling

- **Transport if elevated ozone is forecast**
- **Measurements around source areas**
- **4 trips in May 2011**
- **Monitoring completed and report being written**

Phase II Task 4 Photochemical Modeling

Task 4.1

**Obtain June 2006 episode and evaluate its performance.
This is the episode prescribed for use by TCEQ.
TCEQ has not released the information needed to begin
Task 4**

Task 4.2

**Evaluation of industrial growth, emission inventory
improvements and regional transport on Victoria air quality.**

Task 4.3

**Evaluation of future transport on the Victoria area with June
2006 episode**

Phase II Task Emissions Inventory

Task 5.1

Heavy-Duty Vehicle Emissions Characterization

- **Collect activity data for diesel equipment**
 - Utilities – backhoes/front end loader, dump trucks
 - Street dept – gradall, dump trucks
 - Knuckle boom recycling trucks
 - Garbage trucks
 - Wheeled loader
- **Emissions Estimates**
 - Use activity data collected and PEMS data to calculate annual emissions.

Phase II Task Emissions Inventory

Task 5.2

- **Estimation of Architectural Coatings Emissions**
 - Activity Data Collection
 - Emissions estimates

Questions?