



## 6.1 Caroline

The Caroline station was ordered in November after the budget was passed. Delivery is expected in late February or early March. This station is being provided out of the PAMZ 2009 capital replacement fund. The station will have a crank-up tower and roof safety railing. The TRS analyzer was down for 15 hrs in November due to a failed thermocouple. There were no THC analyzer spans from November 2-19 as the span gas cylinder had run empty and a replacement was not available (delay with Focus's order). The Caroline Plant had a process upset on December 10 that resulted in some elevated SO<sub>2</sub> readings (41 and 53 ppb hourly averages) but no exceedences.

## 6.2 Red Deer

The replacement skid-based shelter provided by AENV should be installed at the Riverside Site in late February/early March. New THC and NO<sub>2</sub> monitors and an ultrasonic wind sensor are also being provided. The NO<sub>2</sub> analyzer was actually received by PAMZ in December and installed in the existing shelter after the NO<sub>2</sub> analyzer failed (data from Dec. 11-17 invalidated). There were no THC analyzer spans from Oct. 22- Nov. 14 as the span gas cylinder had run empty and a replacement was not available (delay with Focus's order). There have been a number of readings in the past few weeks from heavy equipment emissions involved in the construction of a new sewer line that runs directly in front of the station.

**Action: Kelly (Focus) and Pam (City of Red Deer) will make arrangements for power disconnect and reconnect when new shelter is installed.**

## 6.3 Martha

The Martha station was at Bechton in October 2008. Power at the Bechton site was down from Oct. 5-8. Power usage at the site was then carefully managed by the resident to ensure there was sufficient power for the station. There were some elevated PM readings at the site caused by refuse burning.

The station moved to the Niobe site in November. Levels at the site were well within historically normal ranges.

The station moved to Red Deer's Edgar Industrial Park in December. While at the site, the Martha Station recorded some high ozone levels in the early morning. The levels are most likely not associated with ambient sources of ozone. A possible source could be welding but discussions with site owners indicate nothing like that was occurring. TRS exceedences were observed on December 30 and January 6. **Note:** the initial indications reported at the meeting were that the wind direction during the exceedences was from the southeast. However, there was an error in the orientation of the wind head. The wind data was subsequently corrected and the winds were actually from the northwest. Both TRS exceedences on December 30 were also associated with two NO<sub>2</sub> exceedences, which are in themselves, very unusual. AENV had not received any odor complaints. During the meeting Jennifer Lutz confirmed the ERCB had not received any odor complaints either.

The 2009 schedule was changed as at year-end Kevin was still in discussions with the Red Deer Public School Board to monitor vehicle idling at a school drop-off zone. The station is now at the at the Gilby site, about 1.5 km ENE of the Keyera Gilby Plant.

There was extensive discussion about suitability of the vehicle idling monitoring at a site at the Oriole Park Elementary School now scheduled for February. Monitoring would be done near the parent drop-off zone as the school has already implemented an excessive idling avoidance policy for its school buses. Additional siting precautions would be needed to ensure student safety as well as security of the station. The School District can provide security fencing. The installation costs will be higher than usual due to School District's insistence on tech cable for the power. The site also does not meet AMD siting considerations due to its close proximity to the school. It was agreed that Kevin proceed to make arrangements for monitoring at the Oriole Park Site.

**Actions: Kevin will make arrangements with the Red Deer Public School District for monitoring at the Oriole Park Site.**

**Focus will look into removing the tower from the station (wind monitor would have to be installed on school roof) or other modifications to restrict access to the station roof.**

#### 6.4 Raven

The station was at the Morningside site (Passive Site 23) from October to mid-January. There was some initial downtime with the wind sensor after connections had loosened off during transport to the site. The Relative Humidity sensor was also down for a few days (power supply failed). Ambient levels at the site were well within historically normal ranges. The THC analyzer was returned to service in early December. It had been removed after failing in June. An attempt was made to reinstall the unit in September however the repairs by the Canadian distributor were not successful and so it was returned to them for repair a second time.

The Raven Station has just been installed at a site north of the base of the Medicine Lodge Ski Hill west of Bentley. This site was selected as a replacement for a site originally planned for the intersection of Highways 2 & 12 west of Lacombe after it was determined that the cost of providing power to this site was prohibitive. The decision to drop the Highway 2 & 12 Site was made by the PAMZ executive during holiday season. The Medicine Lodge site was originally ground-truthed for monitoring in the Gilby area.

#### 6.5 Passives

October and November results displayed levels and patterns consistent with historical normals.

### 7. Special Projects

#### 7.1 Tay River Monitoring Program

The Swan Lake station SO<sub>2</sub> was operating at 100% for October and November. The October and November passive results indicated levels continue to be highest near the Ram River and Strachan Plants.

#### 7.2 Sundre Particulate Monitoring Program

AENV has allowed SFP to discontinue the program concluding that the mill is not the source of

some of the TSP exceedences observed by the Program. However since that decision Kevin has received the results of the inorganic/organic analyses of samples collected on 3 exceedence dates in October and November. These results are the opposite of previous analyses i.e. primarily organic content. Kevin has ordered an analysis of 2 more samples collected on exceedence dates in November, one with winds primarily from the direction of the plant and the other from the direction of the airport.

### 7.3 Mercury Deposition Sampling Program

The 2009 Budget only includes funding for the program until the end of March. Kevin will be meeting with Hamed to discuss the decommissioning of the site and removal of the equipment.

### 7.4 PAML 2 Big Valley and Red Willow Monitoring

Levels at the Big Valley site were well within historically normal ranges for PAMZ region. There was one TRS exceedence at the Big Valley Site recorded with southwest winds. A preliminary review of the data does not indicate ozone levels that are higher than those observed at Red deer or Caroline during the same time period (July – October).

## 8. Ozone Management Plan

PAMZ's Ozone Management Plan was submitted to AENV on December 29. The Ozone Management Committee will likely continue to meet twice a year. Most of the initial activities involve tracking progress and developments and will be incorporated in an annual report. Kevin shared the preliminary results from the 2005-2007 assessment that indicate PAMZ remains in the surveillance level (just under management trigger at Caroline). Kevin reviewed the objectives of the Ozone Management Plan that have implications for industries and municipalities.

## 9. Other Business - None

## 10. Upcoming Events

Feb. 3 PAMZ Board Meeting – Red Deer County Offices w/ Presentation on a Biowaste Energy Generation Plant (Plasco) proposed for Red Deer County

Sustainability Workshop Mountain View County is hosting a workshop on March 3 from 10:00-4:30 that includes a presentation by Brad Stelfox on land-use. The cost for PAMZ is \$15 per member and PAMZ can send 4 members. PAM Vust indicated she would like to attend. Others interested in attending should let Kevin know. **Note:** the date of the workshop was subsequently changed to March 9 and the attendance fee was waived.

The next meeting of the PAMZ Communications Committee is planned for March 4 at the ERCB Offices in Red Deer. The committee is soliciting more members from all sectors and is also hiring a consultant to work on action items. PAM Vust indicated she would participate.

## 11. Next Meeting - **Friday, March 27, 2009** 0900 - 1200 hrs at the Red Deer ERCB..

12. Adjournment - meeting was adjourned at 12:00