



**PAMZ** | **Parkland Airshed  
Management Zone**

**Minutes:**           **Technical Working Group Meeting**  
**Date:**               **September 10, 2010**  
**Location:**         **ERCB Red Deer, Midnapore & St. Albert Offices**

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Red Deer Attendees:	Andrea Brack - NRCB Jennifer Lutz - ERCB Jim Saltvold - Public Kevin Warren - Amarok	Heather Callicot - NOVA Dale Nylund - Altagas Brian Vanderzwan - Imperial	David Helmer - AENV Aaron Rognvaldson - Husky Reg Watson - Public
Midnapore Attendees:	Al Duben - ERCB	Harold Gold - Bonavista	Colin Long - Keyera
St. Albert Attendee:	Marcella deJong - Dow		

**Bolded Items are Action Items**

1. The meeting was called to order by Group chair, Aaron Rognvaldson at 0930.
2. The attendees in the Red Deer, Midnapore and St. Albert introduced themselves.
3. The agenda was reviewed and accepted as circulated.
4. The minutes of the June 10, 2010 meeting were accepted.
5. The status of action items arising from the June 10, 2010 meeting was reviewed.

After some discussion it was agreed that the ERCB will do some monitoring and coordinate a survey in the area on a day with southwest winds to try and pinpoint the source(s) and will follow up as needed. Kevin will contact Al Duben to firm up the arrangements. **Carry Forward.** Kevin and Al will coordinate a survey of local O & G Production facilities while the Martha Portable is back at the Delburne Site in September.

Heather will provide Kevin with a copy of NOVA's Operating Approval renewal that contains clauses that require their participation in PAMZ. **Done.** Kevin has shared the clauses with other airsheds' executive directors/program managers.

6. PAMZ AQM Program

The PAMZ network has not yet been audited by AENV for 2010. In last few years this was usually done in May or June. Any decision on renewing or tendering AQM Operations and Maintenance and reporting contract until results of the audit are in.

**NOTE:** At the conclusion of the meeting Kevin received notification by AENV Enforcement and Monitoring Audit Team that PAMZ's stations would be audited following Monday and Tuesday, Sep. 13 & 14.

### 6.1 Caroline

Since the June meeting, data at the Caroline site has reflected historical normals, with the only readings of note were the exceedences of PM<sub>2.5</sub> hourly guidelines and daily objectives observed from August 19-21 in connection with smoke from BC forest fires. The Provincial medical Officer had issued an air quality warning on 19<sup>th</sup> that remained in effect to 26<sup>th</sup>. Large PM<sub>2.5</sub> readings observed on June 30 and July 1 are likely related to extreme precipitation events that resulted in moisture in the analyzer. This is caused by sample tape getting damp and allowing more radiation to pass through it resulting in a false positive.

### 6.2 Red Deer

Numerous PM<sub>2.5</sub> exceedences were also observed at the Red Deer Station on August 19-21. The TEOM PM<sub>2.5</sub> analyzer has been down intermittently since September 2 due to a faulty flow sensor assembly. The analyzer is owned by AENV and we are waiting for them to provide proper replacement part. The first one they provided was for an earlier model of the analyzer. AENV is planning to relocate the precipitation sampler from Red Deer to the Dickson Dam on Sep. 14 and GOA staff at the dam will take over sample collection and analysis.

### 6.3 Martha

#### Mirror

The Martha station was at Mirror in May as reported at the June meeting. The station will return to Mirror in December and include a more comprehensive PAH and VOC sampling program. The levels seen in May were relatively low most likely due to warmer temperatures and reduced locomotive idling.

#### James River

The station was at the James River site (Kyler residence) in June. Correlation of SO<sub>2</sub> with wind direction was not as marked as previous monitoring at site in 2005 and SO<sub>2</sub> hourly readings did not exceed 10 ppb. Readings for most pollutants, including SO<sub>2</sub>, mirror the wind rose. When winds were low, hydrocarbons did creep up, similar to behavior seen at Rimbey site in 2004 and 2007.

**Action: Al Duben will arrange for a survey of local O & G Production Facilities using ERCB's FLIR camera and mobile monitoring unit when the station returns to the site in November.**

#### Louis Lake

The station was at a residence at the Louis Lakes site in July, near the Rocky Mountain House landfill. The landfill is NNW of the residence but winds were predominantly from the WNW. Hydrocarbon levels were slightly elevated at times but well within normals. During the last week at site, Kevin made arrangements with AENV and the Landfill to sample for VOCs at the monitoring site and just southeast of the landfill on two dates. However, winds

on these dates were primarily from the west. The results of the analysis has not been received back from lab yet.

#### Nevis

The station was at Nevis for August and was relocated to Delburne earlier this week. PM<sub>2.5</sub> Exceedences were also observed at Nevis on August 19-21. There have been more winds from the direction of the plant this monitoring period with some low level SO<sub>2</sub> present (maximum 26 ppb hourly average).

#### 6.4 McCoy

##### Trochu

The McCoy station has been at the Trochu site all summer. PM<sub>2.5</sub> exceedences were recorded in August on the same dates as those noted above. Results to date suggest that this location is a good site to determine if anthropogenic ozone is building up from Red Deer sources but this summer the weather conditions were not conducive to ozone formation i.e. cool and wet.

#### 6.5 Passives

Spatial patterns and magnitudes observed over the summer months were consistent with historical records.

## **BREAK**

#### 7. 2011 Portable Monitoring Stations

The IRG met August 11 at the Johnstons. Recommendations from PAMZ's May public meeting were reviewed, along with records of complaints and other data from ERCB, AENV, and SPOG to determine portable locations for 2011. The six sites proposed for the Martha station for 2011 are:

- Wilson Creek, north of Rocky Mountain House (deferred from previous year)
- Innisfail, downwind from Johns Mannville plant
- Lutz site or one in close proximity, east of Olds
- Calumet area, north of Gadsby Lake
- Highway 2 corridor, possibly Bowden area
- Blindman Industrial Park, east of Hwy 2A heading north from Red Deer

The TWG reviewed and discussed the locations chosen by the IRG and agreed with their selection. After substantial discussion the TWG selected the following locations for the McCoy Station in 2011:

- Crossfield-Carstairs - 1<sup>st</sup> quarter, station to remain on site from last quarter of 2010
- Town of Sundre - Last monitored in 4<sup>th</sup> quarter of 2004, may be a new site on west side of town in/near area with lots of recent industrial development
- Dogpound-Madden - Mountain View County
- Horn Hill – Red Deer County, just southeast of Highways 2 and 42 to benchmark air quality in vicinity of proposed Plasco Waste Disposal Site

#### 8. Ozone Management Plan

PAMZ has signed a contract with AENV for \$44,000 for PAMZ to continue work on three sets of short-term deliverables for the Ozone Management Plan (OMP):

- By October 31, prepare a new education page for the PAMZ website, based on material developed by FAP and new material specific to PAMZ.
- By December 31, collect and update existing information to prepare new communications materials.
- By February 28, 2011, prepare a status report on emissions.

This work will primarily be done by PAMZ's consultant, overseen by the Communications Committee.

The OMP is currently being implemented jointly by the TWG and the Communications Committee. It is anticipated that the new staff person at AENV who took over from Mansoor will be working with PAMZ on the OMP's implementation, and the Ozone Management Committee will be re-established.

## 9. Quality Assurance Plan

At the conclusion of June, Kevin received an unsolicited proposal from Calvin Consulting to conduct an audit of the PAMZ Quality assurance Plan. It is a requirement that the plan be audited externally a minimum of every three years. As the implementation of the plan began in April 2008, that means the audit must be completed by April 2011. The scope of work has four elements:

- Request for QAP and data from PAMZ and PAMZ O&M contractor
- Review of plans and data management procedures (a visit to Focus's offices would be required)
- A field audit of two of PAMZ's four continuous station (one permanent, one portable)
- Preparation of Final Summary Report

Calvin has also submitted a proposal to the Peace Airshed Zone Association (PASZA). The proposal totals under \$10k so could be sole sourced. Both PAMZ and PASZA use Focus for their operations and maintenance and reporting contracts so there maybe some leverage on pricing associated with only one review of data management procedures.

**Action: Kevin will follow up with PASZA and the Calvin about awarding the QAP Audit work.**

## 10. Other Business

No other business was discussed.

## 11. Upcoming Events

- Sep 29 PTAC Air Issues Forum - Calgary
- Sep 29 CASA Coordination Workshop - SAIT
- Oct 7 NHL 2010-11 Regular Season Begins
- Oct 21 Shantz New Development Committee Meeting - Elkton Hall
- Oct 26-27 Synergy Alberta - Red Deer
- Oct 26-27 RDRWA Public Environmental Indicators (Land-Use and BioDiversity)

Workshops - Sundre and Red Deer

- Nov 17 Communications Committee Meeting – Red Deer
  - Nov 24 Board of Directors Meeting
12. Next Meeting – **November 19, 2010**, 0900 - 1200 hrs by Video Conference at the Red Deer, Calgary and St. Albert offices. Kevin will participate from Calgary.

The meeting was adjourned at 11:30