



PAMZ | Parkland Airshed
Management Zone

Minutes: Technical Working Group Meeting
Date: March 26, 2010
Location: ERCB Red Deer & Midnapore Offices

Red Deer Attendees:	Marcella deJong - Dow Curtis Horvath - NOVA Aaron Rognvaldson - Husky Brian Vanderzwan - Imperial	Brian Goliss - Shell Colin Long - Keyera Al Simcoe - West Fraser Reg Watson - Public	David Helmer - AENV Dale Nylund - Altagas Chad Templeton - ERCB Kevin Warren - Amarok
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Midnapore Attendees: Kelly Baragar - Focus Al Duben - ERCB Harold Gold - Bonavista

Bolded Items are Action Items

1. The meeting was called to order by the chair Aaron Rognvaldson at 0900 and the attendees in Red Deer and Midnapore introduced themselves. The meeting was joined by Gordon Miller, an ERCB member who observed the meeting from Edmonton via a videoconference link.
2. The agenda was reviewed and accepted with the addition of the following items under other business:
 - RDRWA Technical Advisory Committee Representation
 - New PAMZ Website
 - U of C Research Proposal
 - Cumulative Effects Workshop
3. The minutes of the January 15, 2010 meeting were accepted.
4. The status of action items arising from the January 15, 2010 and previous meeting was reviewed.

Marcella will provide information on Microsoft Live Meeting. Jennifer will have the communications committee test out some alternate electronic and web-based meeting tools. **Carry Forward** Marcella provided the info. The communications committee has not tried yet.

Kevin will table to Board the TWG's recommendation that he contact Environment Canada and negotiate an agreement providing Environment Canada access to PAMZ data for 2010 provided it is not used for a public AQHI calculation. **Carry Forward.** Kevin was unable to table at the January Board Meeting.

Kevin will ask Harry Benders to look into the possibility of adding an NOy analyzer for Red Deer through NAPS program. **Done** NOy Analyzers being considered by AENV in future but probably not best for Peroxyacetyl Nitrate (PAN) as it cannot distinguish PAN from

other nitrogen compounds. An intermittent particulate sampling technique that can be employed by Environment Canada and others.

Kevin will provide Gary with the VOC Ozone Precursor list used by Environment Canada and the VOC target list used by the LICA and WBEA Airsheds. **Done** Kevin provided Gary with the Environment Canada list. It was agreed that the WBEA and LICA target lists are probably not relevant as they are focused primarily on fugitive emissions related to odors not ozone formation.

Kevin will contact Bob Myrick and Monique LaPalme and see what assistance Alberta Environment and Environment Canada respectively can provide in identifying a candidate site(s) for locating downwind station. **Done** Kevin Some work was done by Andrew Clayton (AENV) and Brian Weins (EC) and was discussed later in the meeting.

Kevin will contact Harry Benders to see what the options are for getting some VOC samples taken at the portable and at Red Deer on same dates. **Done** It may be possible to get sampling equipment on loan from AENV on a few dates but analysis costs would most likely be PAMZ's responsibility.

6. PAMZ AQM Program

6.1 Caroline

At the Caroline station, since the last meeting there have been no observations outside historically normal levels.

6.2 Red Deer

For the Red Deer site, all readings were within historically normal ranges except for fine PM (PM_{2.5}). Since the beginning of January to present, the 24-hour objective for PM_{2.5} (30 µg/m³) was exceeded on 16 dates. PM_{2.5} exceedances were observed in a number of sites in southern and central Alberta during this time, mostly as a result of meteorology producing fog and inversions which create high PM_{2.5} levels. If next year is similar, there is potential to reach the "management plan" level for fine PM under the Canada Wide Standard, based on a three-year average. This would require the development of a management plan for fine PM, similar to what was done for ozone. The Delburne and Gadsby Lake sites also saw PM_{2.5} exceedances, all on the same dates.

6.3 Martha

PAMZ previously adjusted the schedule for the Martha station for January, moving it to Jackson Creek as part of a joint investigation by the ERCB, AENV and Alberta Health Services (AHS). This investigation arose due to concerns about oil and gas activity, so SO₂ and TRS were the main focus. The observed levels did not suggest a source that was close by. No high hourly averages were seen for TRS, suggesting the absence of fugitive emissions of sour gas. On one day in the early morning, two hourly averages for PM_{2.5} were 100 µg/m³ or higher; the guideline is 80. Winds were from the southeast for the period before during and after the exceedances. It was concluded that the data are valid and there is no reason to discount the readings, but there is a question as to the source.

No other parameters were elevated at the same time. AHS did some indoor air sampling but Kevin has not seen the results yet. It was agreed that pending anything to the contrary in the AHS report on this investigation, PAMZ would not monitor again at this site in six months.

Action: Kevin/Brian will communicate this decision to the board at their next meeting.

For February, the Martha station was located near Delburne at Hilltop Greenhouses. Sulphur dioxide was the main concern. No hourly readings approached the air quality objective for SO₂, but there were a lot of spikes (high instantaneous values in the 170-180 ppb range). At the time, there were high winds from the southwest, which correlated well with the resident's concerns. 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.

Action: Kevin will contact All Duben to firm up the arrangements.

The Martha station was at Nevis for March, where a lot of southwest winds were also noted. Problems with the power supply caused some analyzers to malfunction, but an electrician fixed the problem and the equipment is now working as it should. The station will go to Edgar Industrial Park in April, at the Red Deer City Soccer Association clubhouse which is downwind of the local industrial sources.

6.4 McCoy

The McCoy station was at the Gadsby Lake site northeast of Lacombe for Q1. The concerns of area residents were related to air quality and to various oil and gas impacts, as there are some 200 facilities within a 10-km radius of the site. A lot of low level SO₂ was noted but other values were normal. The site has experienced some vandalism; the lock was cut on the trailer but there was otherwise no damage. The station's next location will be the downwind ozone monitoring site for April 15 - September 30. The station will be overhauled the first week in April prior to deployment.

6.5 Passives

For the passive sites, higher SO₂ and slightly higher NO₂ readings were observed in January due to the same conditions that gave rise to high PM_{2.5}.

7. Ozone Management Plan

Kevin advised the group that all the short-term actions in the Ozone Management Plan (OMP) have been completed. PAMZ invoiced AENV and has received a cheque. For next year's actions in the Action Plan, PAMZ will submit a grant application to AENV for about \$35,000. The only short-term action that is not done relates to adapting the education materials from Fort Air Partnership for PAMZ. PAMZ's website has a link to FAP's material. The City of Red Deer is the first recipient of the Action HERO award due to their anti-idling campaign. They will be formally recognized on Clean Air Day. PAMZ is looking for more Action HERO nominees.

AENV is holding a workshop on April 13 at which all airsheds that have done OMPs will report back on their findings, progress and steps for next year.

BREAK

8. Q2 & Q3 2010 McCoy Station Location

In response to the Stantec recommendations for addressing data gaps for ozone monitoring, it was decided at previous meeting that PAMZ would deploy the station at a site downwind of Red Deer from April 15 – September 30 as reported earlier. Andrew Clayton (AENV) joined the meeting to discuss the work he did analyzing various PAMZ station data to make a recommendation that the station be located at the Fenn Site. Brian Weins (EC) did an analysis of Red Deer (PAMZ site) and Oyen (EC site) air monitoring data, emission sources in the region and prevailing wind patterns during summer months. He concluded that a site in Trochu would be best situated to help determine if there is a build-up of anthropogenic ozone downwind of Red Deer. Based on their analysis and advice, the TWG decided to monitor in the Trochu area northwest of Highway 21/27 intersection. If other issues are identified by the monitoring PAMZ will be in a better position to respond as this site would lie within its boundaries.

Action: Kevin/Brian will communicate the TWG's decision to the board of directors at their next meeting.

9. Other Business

- Kevin discussed changes the communications committee is proposing for the annual report format. Rather than one large report, there will be four smaller reports:
 - State of the Airshed – 4 pages
 - AQM Program Summary – 20 pages
 - Ozone Management Plan Summary – 6-8 pages
 - Financial Performance Summary – 1 page

Aaron Rognvaldson, David Helmer and Reg Watson agreed to participate on the annual report sub-group.

Action: Kevin will arrange for teleconferences for committee to discuss annual report.

- CDW data providers and AENV are meeting April 29 to discuss CDW audit results. Some issues regarding Airsheds' (including PAMZ) raw and processed data were identified in the report. For PAMZ the issues arose because of errors in recalculating original raw and processed data. Data already in the CASA data warehouse was unaffected.
- The Red Deer River Watershed Alliance invited Kevin to join their technical committee which is preparing the integrated watershed management plan. The TWG approved Kevin's representing PAMZ.

Action: Kevin will communicate this decision back to the Red Deer River Watershed Alliance and PAMZ Board of Directors.

- There was a request from Alex de Visscher at U of C who is looking for additional areas to add to his modelling project. It was agreed that PAMZ will send a letter offering him PAMZ data via the CDW. If he needs higher resolution data PAMZ can provide it, but he would have to pay any associated costs. The letter will also indicate that PAMZ member companies are willing to provide actual emission data.

Action: Kevin will work with Aaron to draft and send letter to Alex.

- Brian and Kevin attended a March 22 workshop sponsored by AENV and facilitated by CASA, to which all the nine airsheds were invited. Airsheds and AENV are looking at their relationship now and in the future with the shift to cumulative effects management. The workshop focused on potential future roles for airshed zones. Participants also heard about the Integrated Monitoring and Environmental Reporting Framework (IMERF) being prepared by AENV. A draft report may be ready for distribution by June and PAMZ TWG may want a presentation at a future meeting.

10. Upcoming Events

- PAMZ Board Meeting 3-6 PM March 31, Kinex Arena, Red Deer
- PAMZ Public Issues Identification Meeting 7-9 PM, May 19 Innisfail Legion
- ACE 2010 Calgary Air & Waste Management Assoc. (AWMA) Annual Conference & Exhibition June 22-25, 2010 Telus Convention Centre, Calgary, AB

11. Next Meeting - **Friday, June 11, 2010**, 0900 - 1200 hrs by Video Conference at the Red Deer, Edmonton and Calgary ERCB offices.

The meeting was adjourned at 12:00