



PAMZ | Parkland Airshed Management Zone

Minutes: Technical Working Group Meeting
Date: January 17, 2014
Location: AER Boardroom, # 202, 4909 - 49th Street, Red Deer
AER Videoconference Room. 300, 31 Sunpark Plaza SE, Calgary

Participants:

| | | |
|-----------------------|---------------------------------|-------------------------------|
| Neil Berry - AER | John Cuttress - Focus | Lenin Flores - Focus |
| Brian Goliss - Shell | Alastair Graham - Secure Energy | Shane Lamden - NOVA Chemicals |
| Colin Long - Keyera | Shelley Morris -ESRD | Tali Neta - NRCB |
| Dale Nylund -Altagas | Steve Quine - ME Global | Aaron Rognvaldson - Husky |
| Jim Saltvold - Public | Pervez Sunderani - ESRD | Reg Watson – Public |
| Kevin Warren - Amarok | | |

Bolded Items are Action Items

1. The meeting was called to order by the chair, Aaron Rognvaldson, at 1003 hrs
2. All attendees introduced themselves.
3. The agenda was reviewed and accepted with the addition of a discussion of other meeting options under other business.
4. The minutes of the November 22, 2013 meeting were accepted.
5. The status of action items arising from the November 22, 2013 meeting was reviewed.

Kevin will meet with Red Deer Environmental services to discuss their provision of the Lancaster monitoring site as a permanent site. **CARRY FORWARD** The city's environmental services will need to discuss path forward with public works department who previously set up Riverside arrangements. Shelley indicated that ESRD needs to participate in any future meeting(s).

Kevin and Aaron will table the 2014 Operating Budget and Funding Apportionments at the next Board Meeting. **DONE** The budget as recommended by the TWG was passed by the board.

Kevin will submit an application for funding the monitoring at the Lancaster site from July 2014 through March 2015 prior to the February 7, 2014 Application Deadline. **IN PROGRESS** Kevin will also be submitting an application requesting funds for the upgrading of the PAMZ AQM Plan to satisfy new requirements in the revised AMD.

6. PAMZ AQM Program

The one year contract with Focus for the operation and maintenance of the PAMZ AQM Program has been agreed to and awaits Focus's signature. The one-year contracts with Gene Lesoway for the passive changeout and with Whiteley Enterprises for reporting and archiving have been completed. PAMZ's three-year contract with Maxxam for the passives' analysis expires at the end of this calendar year. Sue Arrison's contract for communications committee work will also be renewed for 2014.

PAMZ will revisit the Maxxam contract in June and make a decision on re-tendering the work in the fall.

The temporary site permit for the Lancaster site expires at the end of March. Shelley Morris indicated that ESRD is open to options for using one of their existing trailers or a new station at a permanent Lancaster site or using PAMZ's Martha Station and providing additional monitoring equipment to make it consistent with the Riverside site and capable of calculating a true AQHI. i.e. upgrade to a Sharp 5030 PM_{2.5} and add a CO Monitor.

In addition to the AQM Plan update planned for the second half of 2014, or earlier if funding approval is received earlier, PAMZ also needs a third party review of its Quality Assurance Plan. This work will be done by Calvin consulting who conducted the last review. The review will be paid with out of the PAMZ core operating budget i.e. funded by its members.

Caroline

The station continues to experience intermittent PM_{2.5} high-scaling episodes. Some of the episodes may be caused by recent heavy snowfalls but others cannot be explained and may be the analyzer malfunctioning. The TWG agreed that Kevin and Focus will monitor the 9-year old BAM 1020's operating record over the first two quarters of 2014 and a decision will be made by TWG in fall as to replace it with a Sharp 5030 in 2014 (consistent with ESRD and other airsheds' recent purchases. Capital replacement cost is roughly \$35K with \$3K for the labour and materials associated with the retrofit as the analyzers need to be relocated, replumbed and rewired.

Elevated THC readings observed with southwest winds in the evening and early morning are under investigation. Brian Goliss followed up with TCPL's Schrader Creek Compressor station, the most logical source, however TCPL indicated that all operations were normal on the dates and times in question.

The results of the passive monitoring network for October and November indicate levels and spatial distribution consistent with historical normals.

Red Deer Riverside

Levels have been within historical normals since the last TWG meeting with no PM_{2.5} guideline or objective exceedences. Lots of NOX readings and elevated THC in recent weeks due to a lot of vehicle activity in the area associated with work on the utility corridor that runs past station.

The station's heater failed in late October and the replacement part was not available or installed until the end of December. Space heaters were employed while the station heater was out of service and the proper station operating temperature range was maintained.

Portables

Kevin reviewed the proposed locations for 2014

| 2014 | Martha | | McCoy |
|-------------|------------------------------|-----------|----------------------|
| January | Red Deer Lancaster Reservoir | January | Everdell |
| February | Red Deer Lancaster Reservoir | February | James River East |
| March | Red Deer Lancaster Reservoir | March | Crossfield |
| April | Ponoka | April | Olds |
| May | Ponoka | May | Olds |
| June | Ponoka | June | Olds |
| July | Red Deer Lancaster Reservoir | July | Everdell |
| August | Red Deer Lancaster Reservoir | August | James River East |
| September | Red Deer Lancaster Reservoir | September | Crossfield |
| October | Red Deer Lancaster Reservoir | October | Crossfield-Carstairs |
| November | Red Deer Lancaster Reservoir | November | Crossfield-Carstairs |
| December | Red Deer Lancaster Reservoir | December | Crossfield-Carstairs |

Everdell

There is a strong correlation of elevated THC levels with southwest winds. As reported previously AER determined the Imperial Everdell facility located to northwest was within compliance. The group discussed possible sources of the readings noting that there is a substantial amount of drilling activity in the area including sites west of Cow Lake. The station will be relocated to the Johnston residence in early February to characterize THC levels in the area.

Passives

The results of the passive monitoring network for October and November indicate levels and spatial distribution consistent with historical normals.

There was discussion of changes or modifications to the program that could help reduce costs. One option would be to remove the two passive sites in Banff National Park which would lower the cost of changeout and analysis by \$15-\$18K per year.

Kevin will begin investigating the removal of the two passive sites in Banff National Park from the network.

7. Red Deer Lancaster Site Discussion

Levels and trends of most pollutants at the Lancaster or quite similar to those at Riverside. H₂S levels since early September have been near or at the lower detectable limit supporting the hypothesis that the H₂S observed in summer months was associated with biogenic sources i.e. wetlands to the south. The site is looking like it is well suited for the installation of a 2nd permanent AQM station in Red Deer.

The ESRD funding for the site's operation required an interim data summary by December 31 and a final summary by end of February. The interim data summary has been submitted.

ESRD would probably enter into a lease with the City for a permanent site and as reported earlier may accept PAMZ's plan to utilize the Martha Station and upgrade it with analyzers through the NAPS program. Shelley will be touring the station with Kevin after the meeting to familiarize herself with the location. Tali Neta and Jim Saltvold indicated they would like a tour also and so they will join them.

8. O3 Management Plan and PM2.5 Reduction Plan Updates

Linda Jabs is the ESRD lead on developing the new PM2.5 Management Plan. She has prepared a draft timeline, and the first steps will be to establish a steering committee and get stakeholders involved. The 2010 and 2011 PM2.5 episodes in Red Deer are now being analyzed and the intent is to have a plan in place by spring 2015. The new plan will like piggyback on the existing Ozone Management Plant rather than start from scratch, but more rigorous actions will likely be needed to get PM2.5 levels down. Most of the Ozone plans assigned the lead on medium- and long-term objectives to ESRD, and many of these have been deferred due to reorganization within the department.

9. Other Business

Other Meeting Options

Concerns were expressed that attending shorter TWG meetings is becoming increasingly difficult due to increased workloads especially when they start later in the morning and limit members' ability to undertake other work on meeting dates.

After some discussion it was agreed that future meetings will start at 8:30 regardless of length and that remote participation be an option for future meetings.

10. Upcoming Events

- PAMZ Board Meeting, Red Deer, January 22, 2014
- Issues Response Group Meeting is being rescheduled to February
- The Airshed Council is planning a two-day Airshed issues Forum the 3rd week of October

11. Next Meeting

The next meeting of the TWG will be April 11 8:30-12 at the Red Deer and Midnapore AER offices via videolink.

Kevin will contact Al and John Grant and ask them to reserve the Midnapore meeting room.

12. Adjournment
The meeting was adjourned at 1155 hrs.